# *CCGS W.E. Ricker* Gulf of Alaska Salmon Survey, November - December 1997

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by

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## ABSTRACT

Welch, D. W., J. F. T. Morris, and E. Demers. 2002. *CCGS W.E. Ricker* Gulf of Alaska salmon survey, November - December 1997. Can. Data Rep. Fish. Aquat. Sci. 1102: 45 p.

The Canadian Department of Fisheries and Oceans conducted a survey of the fall distribution of juvenile Pacific salmon (*Oncorhynchus spp.*) from November 1 to December 12, 1997, in the northern Gulf of Alaska. This survey demonstrated that: (1) juvenile salmon were still confined to the continental shelf region of the Gulf of Alaska in November - December, consistent with previous fall and summer surveys, conducted in October in waters east of Kodiak Island; (2) juvenile salmon have vacated Southeast Alaskan shelf waters by November and are still migrating in a rapid and focused manner counter-clockwise along the continental shelf around the Gulf of Alaska towards the Aleutian Archipelago; and (3) contrary to previous belief, juvenile salmon do not enter the Gulf of Alaska from continental shelf regions of the Gulf of Alaska. Our results show that North American juvenile salmon migrate in a strongly directed fashion along the continental shelf at least as far as the start of the Aleutian Archipelago, and have not yet begun their migration to the offshore. It is unclear from the current surveys when they move into the open ocean, or why most species migrate en masse to the Aleutians in winter.

## RESUME

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*Le Département Canadien des Pêches et Océans a réalisé une étude sur la distribution automnale des saumons juvéniles (Oncorhynchus spp.) du 1er novembre au 12 décembre 1997 dans la partie nord du Golfe de l'Alaska. Cette étude a démontrée que : (1) les saumons juvéniles étaient toujours confinés sur la région du plateau continental du Golfe de l'Alaska en novembre - décembre, ce qui est consistent avec les études antérieures réalisées à l'automne et à l'été; (2) les saumons juvéniles avaient quitté les eaux du plateau continental du Sud-Est de l'Alaska et qu'ils migraient toujours d'une façon rapide et dirigée dans le sens anti-horaire autour du Golfe de l'Alaska sur le plateau continental jusqu'à l'archipel des Aléoutiennes; (3) contrairement aux hypothèses antérieures, les saumons juvéniles n'entrent pas dans le Golfe de l'Alaska à partir de la région du plateau continental du Golfe de l'Alaska. Nos résultats démontrent que les saumons juvéniles nord américains migrent dans une direction fortement dirigée le long du plateau continental, et qu'ils n'ont pas encore entamé leur migration vers le large. Les raisons pour lesquelles ils migrent vers le large ou toutes les espèces migrent en masse jusqu'aux Aléoutiennes durant l'hiver sont encore incertaines.*

## INTRODUCTION

A survey of the fall distribution of juvenile salmon (*Oncorhynchus spp.*) was conducted from November 1 - December 12, 1997, in the northern Gulf of Alaska using a pelagic rope trawl on the *CCGS W.E. Ricker*. The survey had the following objectives:

1) to determine whether juvenile Pacific salmon migrations within the Alaskan Coastal Current extend westward past Kodiak Island and along the Aleutian Archipelago in the late fall, or whether the juvenile salmon move off the continental shelf in regions east of Kodiak Island in the late fall into the central Gulf of Alaska;

2) to determine the seaward extent of juvenile salmon on the continental shelf;

3) to collect data on the factors limiting the distribution of juvenile salmon to continental shelf regions; and,

4) to collect detailed oceanographic measurements on the Alaskan Coastal Current.

## MATERIALS AND METHODS

### General Survey Information

Figures 1, 2 and 3 show the fishing, oceanographic and zooplankton stations, respectively, completed by the CCGS W.E. Ricker during the fall 1997 survey. A total of 70 fishing stations, 104 oceanographic stations, and 44 zooplankton stations were completed during the fall 1997 survey.

Fishing was completed along seven transects around the Gulf of Alaska from Southeast Alaska to Dutch Harbor, Alaska. Each transect was designed to extend from a position on the continental shelf to a position 200 km offshore, well beyond the 1000 m bathymetric contour. A description of the stations and transects completed is included below:

1) Cape Ommaney at the southern tip of Baranof Island with 13 fishing stations, 14 oceanographic stations and 11 zooplankton stations;
2) Cape Cross at the northern end of Chichagof Island, Southeast Alaska, with 7 fishing stations, 9 oceanographic stations and 4 zooplankton stations;
3) Cape Chiniak at the eastern end of Kodiak Island with 19 fishing stations, 22 oceanographic stations, and 14 zooplankton stations;
4) East of Mitrofania Island off the Alaska Peninsula, with 12 fishing stations, 11 oceanographic stations and 7 zooplankton stations;
5) one transect near the Shumagin Islands south of the Alaska Peninsula (cut short by severe weather) with 3 fishing and zooplankton stations, 13 oceanographic stations;

6) one transect on Sanak Bank off the Aleutians near Dutch Harbor, Alaska, with 7 fishing stations, 9 oceanographic stations; and,
7) another abbreviated transect off Cape Spencer, Southeast Alaska, (again, cut short by severe weather) taken on the return trip to Nanaimo, BC, with 3 fishing stations, 8 oceanographic stations.

Additional stations were also completed in the central Gulf of Alaska en route from Cape Ommaney, Southeast Alaska, to the start position of the Cape Chiniak transect off Kodiak Island, with 6 fishing stations, 9 oceanographic stations and 5 zooplankton stations. Six additional oceanographic stations were completed northeast of Kodiak Island. Two oceanographic stations were completed en route from Kodiak Island to Cape Spencer. A single oceanographic station was completed in Fitz Hugh Sound inside the central coast of British Columbia.

**Ship, Fishing Gear and Fishing Operations**

The CCGS W.E. Ricker is a 1,104 gross tonnes stern trawler, 58 m in length, 9.5 m in beam, and powered by a 2,500 H.P. model AH 40 Akasaka diesel engine. Fish sampling was conducted during daytime with a model 400/580 mid-water trawl, manufactured by Cantrawl Pacific Ltd., Richmond, BC. The trawl measured 200 m in length, and had a front-end section of hexagonal mesh made with 3/8 in (9.5 mm) and 5/16 in (7.9 mm) Tenex rope, a body made up of 64 in (163 cm), 32 in (81.3 cm), 16 in (40.6 cm), 8 in (20.3 cm) and 4 in (10.2 cm) polypropylene sections, an intermediate section of 3 in (7.6 cm) polypropylene, and a 1.5 in (3.8 cm) nylon cod end lined with 0.25 in (6.4 mm) mesh. The trawl had three 120 m bridles of 5/8 in. wire rope per side that are attached with a single hook-up to 5 m Jet doors. Typically, 100-150 m of 1.25 in. warp was paid out to tow the trawl at the surface.

The trawl was deployed within 5 m of the surface at speeds from 4.5 to 5 knots (2.3 to 2.6 m $s^{-1}$). A measured trawl mouth opening of approximately 30 m horizontal by 16 m vertical (measured using a ScanMar trawl eye) was achieved using the following configuration: 125 m of 1.25 in (3.2 cm) steel warp, three 120 m 5/8 in (1.6 cm) bridles per side attached at a single hook-up to 5 m US Jet mid-water trawl doors. Eight 12 in (30.5 cm) diameter Scotsman floats were tied into the kite attached to the headrope, and two 20 in (50.8 cm) diameter Scotsman floats were attached at each wing tip to provide added floatation.

**Oceanographic sampling**

At all oceanographic and fishing stations, the scientific crew (1) conducted CTD (conductivity-temperature-depth) casts, (2) collected surface seawater samples for nitrate, phosphate, silicate and salinity from the ship's pumped sea water loop, (3) collected filtered surface seawater to measure chlorophyll *a* and phaeophytin, and (4)

used an acoustic Doppler current profiler (ADCP) to measure velocities and direction of currents with depth.

CTD casts were conducted to within 5 m of the bottom or a maximum depth of 1,000 m with a Guildline CTD probe (Serial # 58483). Six calibration samples from selected CTD casts were collected over the course of the survey with Nisken bottles at depths where the salinities were stable. The Niskin bottles were equipped with two reversing digital thermometers (serial #'s T557 and T647) and a pressure sensor (serial # P2099) with a 2,000 Dbar pressure range.

Surface samples were drawn from the ship's seawater loop at all stations for subsequent measurement of nitrate, phosphate, silicate, and salinity levels. Nitrate and phosphate samples were collected in acid-washed glass test tubes and stored frozen. Silicate samples were collected in acid-washed plastic test tubes and also stored frozen. A 500 ml seawater sample was filtered on an ashed GF/F Whatman glass fiber filter, folded in half, wrapped in aluminum foil and frozen for subsequent measurement of chlorophyll *a* and phaeophytin.

A Sea-Bird thermosalinograph recorded a continuous log of sea surface salinity and temperature from the ship's seawater loop. Surface seawater samples from the ship's seawater loop were taken at every station as a check on the accuracy of the salinity probe. Thermosalinograph and CTD data can be obtained from Joe Linguanti, Senior Analyst, Ocean Sciences & Productivity Division, Department of Fisheries and Oceans, Institute of Ocean Sciences, 9860 West Saanich Rd, Sidney, BC, Canada V8L 4B2. Tel: (250) 363-6586; E-mail: linguantij@dfo-mpo.gc.ca.

An acoustic Doppler current profiler (ADCP), RD Industries, frequency 150 kHz, was run continuously to measure velocities and direction of currents with depth along the survey track. The ADCP data was logged with Transect ver.1.82 software. ADCP analyses can be obtained from Dr. Andreas Münchow, Rutgers University, New Brunswick, New Jersey. E-mail: andreas@imcs.rutgers.edu

**Zooplankton Sampling**

Oblique bongo tows to approximately 150 m were conducted with 57 cm diameter, 253 μm Nitex nets. Standard sampling protocol was followed at each station and consisted of a 0.3 m $s^{-1}$ net retrieval speed while towing at 2 knots (1.0 m $s^{-1}$) after reaching the target depth. Most bongo tows were completed within 20 minutes from the time of deployment.

Zooplankton were sorted into four size factions by successively sieving through 8.0, 1.7, 1.0, and 0.25 mm screens. The size fractions were weighed wet, dried at 60°C for 48 hours, re-weighed, and stored in plastic bags for future $\delta^{14}C$ and $\delta^{15}N$ isotope analyses.

# RESULTS

## Salmon Catch Data

Table 1 reports information on the rope trawl tows and a summary of salmon catches for the survey. The following information is included: station ID, transect name, sampling region, date and time in Pacific Standard Time (PST), start latitude (°N) and longitude (°W), heading (°T; degrees true), and bottom depth (m). Station ID numbers consisted of the Pacific Biological Station cruise designation ("HS9735", where HS stands for High Seas), followed by a consecutive tow number (e.g., "HS973501" for the first tow of the survey). The station ID number serves as the primary key in the High Seas database that links fishing tow information with the oceanographic and zooplankton tables.

For each tow, catch totals are provided for chinook salmon (*O. tshawytscha*) ("CK") of all ages combined, and separately for juveniles and adults of chum (*O. keta*) ("CM"), coho (*O. kisutch*) ("CO"), pink (*O. gorbuscha*) ("PK") and sockeye salmon (*O. nerka*) ("SE"). In this report, "juveniles" are defined as salmon in their first year in the ocean (age .0+), while "adults" include all older age groups (age .1+ or older). Age separation was determined based on examination of size distributions (fork length) which showed non-overlapping modes for pink, chum, sockeye and coho salmon. For chinook salmon, age separation was not possible because individual sizes overlapped between age groups. Therefore, chinook salmon catches were not divided into juveniles and adults.

A total of 1,081 Pacific salmon were caught during the Fall 1997 survey. Juvenile pink salmon dominated the catches (577). Juvenile chum salmon (330) and sockeye salmon (137) were also abundant. Only 4 adult fish were caught during this survey.

### Spatial Distribution of Catches

Figure 4 shows the spatial distribution of chinook salmon (all ages) catches. Figures 5-8 show the spatial distribution of juvenile chum, coho, pink and sockeye salmon catches, respectively. Figures 9-12 show the spatial distribution of adult chum, coho, pink and sockeye salmon catches, respectively.

Juvenile salmon were extremely scarce at the start of the survey off Southeast Alaska. None were caught at the 13 stations on the Cape Ommaney transect and only 5 juvenile pink salmon were caught at the nearest inshore station on the Cape Cross transect off the northern end of Chichagof Island (Figure 7). In addition, no juveniles were caught at the 6 stations in the central Gulf of Alaska or at the 11 offshore stations on the Cape Chiniak transect beyond the 1,000 m isobath.

Large numbers of juvenile salmon were abruptly encountered on the shelf break and onto the continental shelf along the Cape Chiniak transect. Here, a total of 700 juvenile salmon were caught at 8 stations.

In contrast to the two previous years of fall (October) surveys, much of the fishing effort was focused in regions to the west of Kodiak during the 1997 survey. Also, this survey was completed one month later than during previous years. Owing to the intense winter weather conditions, only three transects were completed to the west of Kodiak Island. On the first transect, approximately 300 km west of Kodiak near Mitrofania Island, 195 juvenile salmon were caught at 7 stations on the shelf, and only 3 were caught at the 5 stations seaward of the shelf. The second transect, further west off the Alaska Peninsula near the Shumagin Islands, was cut short prior to reaching the shelf break because of deteriorating weather conditions.

At this point in the survey, the fall 1997 distribution of juvenile salmon was fully consistent with the two previous fall surveys in 1995 and 1996. As in prior years, all juvenile salmon were strictly confined to the shelf and slope region, and they were strictly absent seaward of the 1,000 m isobath around the Gulf of Alaska.

After more than a week of waiting for a break in the weather, a third and final transect was made west of Kodiak Island at the very western tip of the Alaskan Peninsula on Sanak Bank, at the start of the Aleutian Archipelago. Here, for the first time in three years of fall surveys, a few juveniles were caught past the shelf break. However, the 12 juvenile salmon caught on the 4 offshore tows represented only 7.5% of the total catch on this transect. It is apparent from these results that the majority of the fish were still moving west on the shelf, although by this point the coherence of the Alaska Coastal Current was likely breaking up and significant amounts of the shelf water was likely moving offshore.

In addition to juvenile pink, chum, and sockeye salmon, 1 adult chum salmon was caught at the shelf break on the Cape Ommaney transect off S.E. Alaska (Figure 9), 3 adult sockeye salmon were caught at the shelf break on the Mitrofania Island transect off the Alaska Peninsula (Figure 12), 2 chinook salmon were caught on the shelf on the Cape Chiniak transect off Kodiak (Figure 4), and 4 chinook salmon were caught on the shelf on the Mitrofania Island transect (Figure 4).

**Biological Data**

Table 2 reports the detailed biological data collected from each salmon caught during the survey. Individual salmon were assigned a fish number which consisted of the cruise identifier (HS9735), followed hierarchically by tow number, species code, and sample number. For example, "HS9735-037-124-001" refers to tow number 37, species code "124" for chinook salmon, and the sample number "1" (within tow and species). We used the following codes from Fisheries and Oceans' Salmon Stock Assessment database: 108, pink salmon; 112, chum salmon; 115, coho salmon; 118, sockeye salmon; and 124, chinook salmon.

Biological data collected for each salmon included (when available): species common name, fork length (mm), whole body weight (g wet), sex, stomach content weight (g wet), % water (based on the ratio of dry to wet whole body weight), coded wire tag number (CWT; if present), and thermal mark code (if present). Brood year and release sites for thermal marked fish are described at the bottom of Table 2.

One of the chinook salmon caught on the Mitrofania Island transect carried the coded-wire tag (CWT) No. 31-26-04 identifying it as a Fort Richardson hatchery, brood year 1996 release, and was released as a smolt during spring 1997 (Table 2). The Fort Richardson hatchery is located at the head of Cook Inlet near Anchorage, Alaska.

Figure 13 shows the size distributions (fork length; mm) for chinook, chum, coho, pink and sockeye salmon, respectively.

**Oceanographic Data**

Table 3 reports the physical oceanographic data collected during the survey, including the station ID number, the Institute of Ocean Sciences' consecutive CTD filename, transect, sampling region, the date and time in UTC, the latitude ($^{o}$N) and longitude ($^{o}$W), sea surface temperature (SST; $^{o}$C) and salinity (SSS; ppt) taken from the CTD files, sea surface salinity (ppt) determined from the sample bottles that were used to calibrate the CTD probe, nitrate, silicate and phosphate levels ($\mu$mol $L^{-1}$), chlorophyll *a* and phaeophytin levels ($\mu$mol $L^{-1}$), and the ratio of fluorescence before (Fo) and after (Fa) acidification. The CTD consecutive number consists of the Institute of Ocean Sciences' cruise designation (9735) followed by the consecutive number for each CTD cast on each survey.

**Zooplankton Data**

Table 4 report the zooplankton data by station collected by the Bongo tows, including the station ID number, transect, sampling region, latitude ($^{o}$N) and longitude ($^{o}$W), the date and time in PST, bottom depth (m), target depth (m), tow duration, wire angle (degrees), amount of wire deployed off the winch drum (m), and volume of ocean water sampled in cubic meters. Also shown are the dry weights (g) of zooplankton which were standardised to 1,000 cubic meters sampled for the 8.0, 1.7, 1.0, and 0.25 mm size factions as well as for the total sample.

## DISCUSSION

The November-December 1997 cruise provided a third and final year of results which were fully consistent with the previous two years of fall surveys, with two exceptions. The 1995 and 1996 fall surveys occurred one month earlier (in October), and were restricted to the Gulf of Alaska region eastward from Kodiak Island. The 1997 survey not only provided full confirmation of earlier results, but it also allowed us to

extend the area where these findings were applicable all the way to the start of the Aleutians (2,900 km away from the Fraser River, and even farther from Washington and Oregon).

Both summer sampling by US scientists of the Auke Bay Laboratory in Juneau and the Fall/Winter work with the CCGS W.E. Ricker showed that the majority of juvenile salmon from British Columbia and Southeast Alaska move rapidly north-westward on a migration that is both very large scale and remarkably focused. Not one juvenile salmon was found past the shelf break in three years of fall sampling within the Gulf of Alaska. A similar situation was evident in the summer, although a few juvenile salmon were found slightly past the shelf break, possibly the result of being advected off the shelf in an eddy.

Almost all juvenile salmon were encountered off Kodiak Island and regions west in November and December of 1997, indicating that the tail end of the migration had already passed Southeast Alaska and was moving past the region around Kodiak Island in mid-November. For pink, chum and sockeye salmon, there appears to be strong evolutionary pressure to migrate using the shelf and shelf-break currents rather than the currents farther offshore, although it is not yet fully clear what the reason is. It is puzzling that all of the pink, chum, and sockeye salmon do not reoccupy the shelf environment until they are sexually mature and return to spawn. This interesting dichotomy in the life history warrants further investigation.

Table 1. Tow positions and summary of salmon catches for the W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

| Station ID | Transect | Region | Date | Time PST | Latitude (°N) | Longitude (°W) | Heading (°T) | Bottom Depth (m) | CK all | CM juv | CM ad. | CO juv | CO ad. | PK juv | PK ad. | SE juv | SE ad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HS973501 | CAPE OMMANEY | S.E. ALASKA | 05-Nov-97 | 08:32 | 55.987 | 134.615 | 271 | 195 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973502 | CAPE OMMANEY | S.E. ALASKA | 05-Nov-97 | 10:28 | 55.992 | 134.758 | 284 | 196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973503 | CAPE OMMANEY | S.E. ALASKA | 05-Nov-97 | 12:34 | 56.002 | 134.878 | 293 | 205 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973504 | CAPE OMMANEY | S.E. ALASKA | 05-Nov-97 | 14:27 | 56.032 | 135.002 | 270 | 236 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973505 | CAPE OMMANEY | S.E. ALASKA | 05-Nov-97 | 16:38 | 56.018 | 135.152 | 261 | 278 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973506 | CAPE OMMANEY | S.E. ALASKA | 05-Nov-97 | 18:50 | 56.002 | 135.337 | 261 | 426 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973507 | CAPE OMMANEY | S.E. ALASKA | 06-Nov-97 | 07:36 | 55.990 | 136.155 | 093 | 2,606 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973508 | CAPE OMMANEY | S.E. ALASKA | 06-Nov-97 | 09:00 | 55.982 | 136.040 | 090 | 2,600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973509 | CAPE OMMANEY | S.E. ALASKA | 06-Nov-97 | 10:04 | 55.983 | 135.917 | 083 | 2,408 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973510 | CAPE OMMANEY | S.E. ALASKA | 06-Nov-97 | 11:32 | 55.988 | 135.837 | 085 | 2,300 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973511 | CAPE OMMANEY | S.E. ALASKA | 06-Nov-97 | 14:00 | 56.013 | 135.662 | 084 | 1,222 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973512 | CAPE OMMANEY | S.E. ALASKA | 06-Nov-97 | 16:15 | 56.037 | 135.470 | 081 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973513 | CAPE OMMANEY | S.E. ALASKA | 06-Nov-97 | 17:52 | 56.055 | 135.320 | 093 | 267 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973514 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 09:18 | 57.677 | 137.480 | 057 | 2,001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973515 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 10:50 | 57.722 | 137.392 | 044 | 1,924 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973516 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 12:51 | 57.783 | 137.290 | 067 | 595 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973517 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 14:57 | 57.832 | 137.022 | 075 | 486 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973518 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 16:52 | 57.903 | 136.865 | 046 | 449 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973519 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 18:26 | 57.945 | 136.770 | 061 | 270 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| HS973520 | CAPE CROSS | S.E. ALASKA | 08-Nov-97 | 09:02 | 57.237 | 139.168 | 300 | 3,320 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973521 | OFFSHORE | OFFSHORE | 10-Nov-97 | 09:44 | 56.235 | 139.748 | 332 | 3,418 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973522 | OFFSHORE | OFFSHORE | 10-Nov-97 | 15:30 | 56.415 | 140.707 | 288 | 3,615 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973523 | OFFSHORE | OFFSHORE | 10-Nov-97 | 18:37 | 56.545 | 141.413 | 317 | 3,585 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973524 | OFFSHORE | OFFSHORE | 11-Nov-97 | 09:43 | 56.725 | 144.150 | 311 | 3,832 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973525 | OFFSHORE | OFFSHORE | 11-Nov-97 | 14:47 | 56.802 | 145.077 | 016 | 3,953 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973526 | OFFSHORE | OFFSHORE | 11-Nov-97 | 18:35 | 56.798 | 145.843 | 334 | 4,023 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973527 | CAPE CHINIAK | KODIAK ISLAND | 12-Nov-97 | 07:30 | 56.412 | 148.043 | 310 | 4,091 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973528 | CAPE CHINIAK | KODIAK ISLAND | 12-Nov-97 | 10:09 | 56.498 | 148.303 | 314 | 4,171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973529 | CAPE CHINIAK | KODIAK ISLAND | 12-Nov-97 | 14:05 | 56.580 | 148.590 | 308 | 4,210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973530 | CAPE CHINIAK | KODIAK ISLAND | 12-Nov-97 | 16:36 | 56.640 | 148.808 | 300 | 4,408 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973531 | CAPE CHINIAK | KODIAK ISLAND | 12-Nov-97 | 18:38 | 56.738 | 149.130 | 327 | 4,131 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973532 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 07:56 | 57.222 | 150.915 | 289 | 274 | 0 | 47 | 0 | 6 | 0 | 221 | 0 | 33 | 0 |
| HS973533 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 09:47 | 57.262 | 151.057 | 290 | 164 | 0 | 2 | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
| HS973534 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 11:18 | 57.277 | 151.165 | 188 | 175 | 0 | 56 | 0 | 0 | 0 | 40 | 0 | 31 | 0 |
| HS973535 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 13:35 | 57.313 | 151.295 | 168 | 175 | 0 | 1 | 0 | 0 | 0 | 40 | 0 | 43 | 0 |
| HS973536 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 15:43 | 57.338 | 151.418 | 161 | 197 | 0 | 61 | 0 | 0 | 0 | 55 | 0 | 0 | 0 |
| HS973537 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 18:26 | 57.372 | 151.550 | 160 | 190 | 2 | 0 | 0 | 0 | 0 | 24 | 0 | 3 | 0 |
| HS973538 | CAPE CHINIAK | KODIAK ISLAND | 14-Nov-97 | 07:08 | 57.162 | 150.730 | 156 | 519 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |

Table 1. Tow positions and summary of salmon catches for the W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

| Station ID | Transect | Region | Date | Time PST | Latitude (°N) | Longitude (°W) | Heading (°T) | Bottom Depth (m) | CK all | CM juv | CM ad. | CO juv | CO ad. | PK juv | PK ad. | SE juv | SE ad. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HS973544 | CAPE CHINIAK | KODIAK ISLAND | 14-Nov-97 | 18:36 | 56.715 | 149.108 | 132 | 4,131 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973546 | MITROFANIA ISLAND | ALASKA PENINSULA | 19-Nov-97 | 11:30 | 55.578 | 157.128 | 158 | 133 | 0 | 3 | 0 | 0 | 0 | 37 | 0 | 5 | 0 |
| HS973547 | MITROFANIA ISLAND | ALASKA PENINSULA | 19-Nov-97 | 13:00 | 55.525 | 157.068 | 163 | 139 | 0 | 1 | 0 | 0 | 0 | 16 | 0 | 0 | 0 |
| HS973548 | MITROFANIA ISLAND | ALASKA PENINSULA | 19-Nov-97 | 14:48 | 55.427 | 156.998 | 164 | 134 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
| HS973549 | MITROFANIA ISLAND | ALASKA PENINSULA | 19-Nov-97 | 16:40 | 55.343 | 156.912 | 181 | 134 | 1 | 21 | 0 | 0 | 0 | 5 | 0 | 1 | 0 |
| HS973550 | MITROFANIA ISLAND | ALASKA PENINSULA | 19-Nov-97 | 17:50 | 55.260 | 156.867 | 165 | 149 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| HS973551 | MITROFANIA ISLAND | ALASKA PENINSULA | 19-Nov-97 | 19:08 | 55.188 | 156.812 | 151 | 136 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| HS973552 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 08:45 | 54.692 | 156.442 | 351 | 2,675 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973553 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 16:20 | 54.809 | 156.435 | 300 | 2,015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973554 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 17:35 | 54.860 | 156.502 | 021 | 1,524 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973555 | MITROFANIA ISLAND | ALASKA PENINSULA | 21-Nov-97 | 09:11 | 54.952 | 156.600 | 016 | 1,142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| HS973556 | MITROFANIA ISLAND | ALASKA PENINSULA | 21-Nov-97 | 11:04 | 55.040 | 156.653 | 037 | 971 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| HS973557 | MITROFANIA ISLAND | ALASKA PENINSULA | 21-Nov-97 | 13:10 | 55.106 | 156.752 | 039 | 217 | 0 | 76 | 0 | 0 | 0 | 18 | 0 | 2 | 0 |
| HS973558 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 23-Nov-97 | 14:36 | 55.295 | 158.830 | 134 | 181 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973559 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 23-Nov-97 | 17:51 | 55.120 | 158.517 | 137 | 205 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973560 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 23-Nov-97 | 20:22 | 54.967 | 158.217 | 125 | 149 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| HS973561 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 09:57 | 54.403 | 161.895 | 135 | 72 | 0 | 13 | 0 | 0 | 0 | 30 | 0 | 8 | 0 |
| HS973562 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 11:50 | 54.310 | 161.728 | 122 | 102 | 0 | 6 | 0 | 0 | 0 | 26 | 0 | 9 | 0 |
| HS973563 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 14:18 | 54.190 | 161.483 | 135 | 183 | 0 | 34 | 0 | 0 | 0 | 21 | 0 | 1 | 0 |
| HS973564 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 16:07 | 54.095 | 161.247 | 121 | 994 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| HS973565 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 17:15 | 54.037 | 161.128 | 130 | 1,951 | 0 | 4 | 0 | 0 | 0 | 5 | 0 | 1 | 0 |
| HS973566 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 18:27 | 53.968 | 161.035 | 126 | 2,503 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973567 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 19:34 | 53.923 | 160.930 | 125 | 2,485 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| HS973568 | CAPE SPENCER | S.E. ALASKA | 07-Dec-97 | 13:15 | 58.157 | 138.070 | 081 | 230 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| HS973569 | CAPE SPENCER | S.E. ALASKA | 07-Dec-97 | 15:11 | 58.153 | 137.758 | 087 | 210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS973570 | CAPE SPENCER | S.E. ALASKA | 07-Dec-97 | 16:40 | 58.150 | 137.492 | 090 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Totals: | 6 | 330 | 1 | 27 | 0 | 577 | 0 | 137 | 3 |
| | | | | | | | | | | | | | | Overall total: | | | 1,081 |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-037-124-001 | CHINOOK | 943 | N/A | M | N/A | N/A | | |
| HS9735-037-124-002 | CHINOOK | 802 | N/A | F | N/A | N/A | | |
| HS9735-049-124-001 | CHINOOK | 286 | 302 | F | 1.43 | 72.24 | | |
| HS9735-050-124-001 | CHINOOK | 291 | 327 | M | 8.22 | 77.15 | 31-26-04 | |
| HS9735-050-124-002 | CHINOOK | 265 | 241 | M | 3.68 | 75.26 | | |
| HS9735-050-124-003 | CHINOOK | 281 | 297 | F | 9.24 | 73.83 | | |
| HS9735-010-112-001 | CHUM | 675 | 1316 | F | N/A | N/A | | |
| HS9735-032-112-001 | CHUM | 270 | 277 | M | N/A | N/A | | |
| HS9735-032-112-002 | CHUM | 255 | 178 | M | N/A | N/A | | G96-CHUM |
| HS9735-032-112-003 | CHUM | 248 | 163 | M | N/A | N/A | | |
| HS9735-032-112-004 | CHUM | 236 | 144 | M | N/A | N/A | | WHN-PC96LATE-CHUM |
| HS9735-032-112-005 | CHUM | 264 | 199 | M | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-032-112-006 | CHUM | 247 | 161 | M | N/A | N/A | | |
| HS9735-032-112-007 | CHUM | 278 | 242 | M | N/A | N/A | | |
| HS9735-032-112-008 | CHUM | 247 | 170 | M | N/A | N/A | | |
| HS9735-032-112-009 | CHUM | 279 | 236 | M | N/A | N/A | | |
| HS9735-032-112-010 | CHUM | 283 | 254 | M | N/A | N/A | | |
| HS9735-032-112-011 | CHUM | 246 | 168 | F | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-032-112-012 | CHUM | 247 | 160 | F | N/A | N/A | | HF96-CHUM |
| HS9735-032-112-013 | CHUM | 260 | 197 | F | N/A | N/A | | |
| HS9735-032-112-014 | CHUM | 260 | 221 | F | N/A | N/A | | |
| HS9735-032-112-015 | CHUM | 230 | 134 | F | N/A | N/A | | G96-CHUM |
| HS9735-032-112-016 | CHUM | 236 | 141 | F | N/A | N/A | | |
| HS9735-032-112-017 | CHUM | 245 | 147 | F | N/A | N/A | | |
| HS9735-032-112-018 | CHUM | 260 | 198 | F | N/A | N/A | | |
| HS9735-032-112-019 | CHUM | 239 | 138 | M | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-032-112-020 | CHUM | 254 | 180 | M | N/A | N/A | | |
| HS9735-032-112-021 | CHUM | 247 | 165 | M | N/A | N/A | | G96-CHUM |
| HS9735-032-112-022 | CHUM | 223 | 128 | M | N/A | N/A | | |
| HS9735-032-112-023 | CHUM | 257 | 178 | F | N/A | N/A | | |
| HS9735-032-112-024 | CHUM | 280 | 262 | M | N/A | N/A | | |
| HS9735-032-112-025 | CHUM | 283 | 290 | M | N/A | N/A | | |
| HS9735-032-112-026 | CHUM | 210 | 100 | M | N/A | N/A | | HF96-CHUM |
| HS9735-032-112-027 | CHUM | 272 | 233 | M | N/A | N/A | | |
| HS9735-032-112-028 | CHUM | 250 | 179 | M | N/A | N/A | | WHN96EARLY-CHUM |
| HS9735-032-112-029 | CHUM | 259 | 182 | F | N/A | N/A | | |
| HS9735-032-112-030 | CHUM | 237 | 147 | M | N/A | N/A | | |
| HS9735-032-112-031 | CHUM | 228 | 152 | F | N/A | N/A | | |
| HS9735-032-112-032 | CHUM | 241 | 175 | F | N/A | N/A | | |
| HS9735-032-112-033 | CHUM | 234 | 153 | M | N/A | N/A | | |
| HS9735-032-112-034 | CHUM | 265 | 214 | F | N/A | N/A | | |
| HS9735-032-112-035 | CHUM | 228 | 143 | F | N/A | N/A | | |
| HS9735-032-112-036 | CHUM | 232 | 133 | M | N/A | N/A | | |
| HS9735-032-112-037 | CHUM | 238 | 156 | M | N/A | N/A | | |
| HS9735-032-112-038 | CHUM | 238 | 147 | M | N/A | N/A | | |
| HS9735-032-112-039 | CHUM | 201 | 99 | M | N/A | N/A | | |
| HS9735-032-112-040 | CHUM | 233 | 151 | M | N/A | N/A | | |
| HS9735-032-112-041 | CHUM | 232 | 139 | F | N/A | N/A | | |
| HS9735-032-112-042 | CHUM | 240 | 171 | F | N/A | N/A | | |
| HS9735-032-112-043 | CHUM | 237 | 143 | M | N/A | N/A | | HF96-CHUM |
| HS9735-032-112-044 | CHUM | 257 | 211 | F | N/A | N/A | | |
| HS9735-032-112-045 | CHUM | 231 | 145 | F | N/A | N/A | | |
| HS9735-032-112-046 | CHUM | 265 | 221 | F | N/A | N/A | | |
| HS9735-032-112-047 | CHUM | 185 | 68 | M | N/A | N/A | | |
| HS9735-033-112-001 | CHUM | 268 | 222 | M | N/A | N/A | | |
| HS9735-033-112-002 | CHUM | 263 | 225 | M | N/A | N/A | | |
| HS9735-034-112-001 | CHUM | 228 | 122 | F | N/A | N/A | | |
| HS9735-034-112-002 | CHUM | 268 | 220 | F | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-034-112-003 | CHUM | 250 | 169 | F | N/A | N/A | | WHN-PC96LATE-CHUM |
| HS9735-034-112-004 | CHUM | 245 | 178 | F | N/A | N/A | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-034-112-005 | CHUM | 233 | 134 | M | N/A | N/A | | |
| HS9735-034-112-006 | CHUM | 226 | 114 | F | N/A | N/A | | |
| HS9735-034-112-007 | CHUM | 268 | 242 | F | N/A | N/A | | |
| HS9735-034-112-008 | CHUM | 242 | 152 | F | N/A | N/A | | |
| HS9735-034-112-009 | CHUM | 268 | 241 | F | N/A | N/A | | |
| HS9735-034-112-010 | CHUM | 231 | 134 | F | N/A | N/A | | |
| HS9735-034-112-011 | CHUM | 267 | 241 | M | N/A | N/A | | |
| HS9735-034-112-012 | CHUM | 253 | 173 | F | N/A | N/A | | G96-CHUM |
| HS9735-034-112-013 | CHUM | 251 | 176 | F | N/A | N/A | | G96-CHUM |
| HS9735-034-112-014 | CHUM | 265 | 230 | M | N/A | N/A | | |
| HS9735-034-112-015 | CHUM | 247 | 162 | M | N/A | N/A | | |
| HS9735-034-112-016 | CHUM | 284 | 268 | M | N/A | N/A | | |
| HS9735-034-112-017 | CHUM | 247 | 182 | F | N/A | N/A | | |
| HS9735-034-112-018 | CHUM | 250 | 175 | M | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-034-112-019 | CHUM | 268 | 210 | F | N/A | N/A | | G96-CHUM |
| HS9735-034-112-020 | CHUM | 241 | 156 | F | N/A | N/A | | |
| HS9735-034-112-021 | CHUM | 255 | 180 | F | N/A | N/A | | |
| HS9735-034-112-022 | CHUM | 246 | 165 | F | N/A | N/A | | |
| HS9735-034-112-023 | CHUM | 257 | 193 | M | N/A | N/A | | WHN96EARLY-CHUM |
| HS9735-034-112-024 | CHUM | 229 | 122 | F | N/A | N/A | | AFK96-CHUM |
| HS9735-034-112-025 | CHUM | 225 | 132 | M | N/A | N/A | | WHN96EARLY-CHUM |
| HS9735-034-112-026 | CHUM | 262 | 195 | M | N/A | N/A | | |
| HS9735-034-112-027 | CHUM | 266 | 217 | M | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-034-112-028 | CHUM | 251 | 180 | F | N/A | N/A | | G96-CHUM |
| HS9735-034-112-029 | CHUM | 243 | 164 | M | N/A | N/A | | |
| HS9735-034-112-030 | CHUM | 233 | 159 | M | N/A | N/A | | |
| HS9735-034-112-031 | CHUM | 240 | 172 | M | N/A | N/A | | HF96-CHUM |
| HS9735-034-112-032 | CHUM | 225 | 128 | M | N/A | N/A | | HF96-CHUM |
| HS9735-034-112-033 | CHUM | 233 | 153 | M | N/A | N/A | | |
| HS9735-034-112-034 | CHUM | 231 | 144 | M | N/A | N/A | | HF96-CHUM |
| HS9735-034-112-035 | CHUM | 226 | 140 | F | N/A | N/A | | |
| HS9735-034-112-036 | CHUM | 231 | 147 | F | N/A | N/A | | |
| HS9735-034-112-037 | CHUM | 232 | 141 | F | N/A | N/A | | |
| HS9735-034-112-038 | CHUM | 235 | 140 | M | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-034-112-039 | CHUM | 233 | 147 | M | N/A | N/A | | |
| HS9735-034-112-040 | CHUM | 219 | 121 | M | N/A | N/A | | G96-CHUM |
| HS9735-034-112-041 | CHUM | 230 | 147 | M | N/A | N/A | | |
| HS9735-034-112-042 | CHUM | 242 | 181 | F | N/A | N/A | | |
| HS9735-034-112-043 | CHUM | 215 | 129 | F | N/A | N/A | | |
| HS9735-034-112-044 | CHUM | 236 | 161 | F | N/A | N/A | | |
| HS9735-034-112-045 | CHUM | 247 | 189 | M | N/A | N/A | | |
| HS9735-034-112-046 | CHUM | 234 | 172 | F | N/A | N/A | | G96-CHUM |
| HS9735-034-112-047 | CHUM | 205 | 97 | M | N/A | N/A | | G96-CHUM |
| HS9735-034-112-048 | CHUM | 240 | 170 | M | N/A | N/A | | |
| HS9735-034-112-049 | CHUM | 219 | 124 | M | N/A | N/A | | HF96-CHUM |
| HS9735-034-112-050 | CHUM | 239 | 159 | M | N/A | N/A | | |
| HS9735-034-112-051 | CHUM | 263 | 227 | M | N/A | N/A | | |
| HS9735-034-112-052 | CHUM | 245 | 173 | M | N/A | N/A | | G96-CHUM |
| HS9735-034-112-053 | CHUM | 228 | 133 | M | N/A | N/A | | G96-CHUM |
| HS9735-034-112-054 | CHUM | 224 | 125 | M | N/A | N/A | | |
| HS9735-034-112-055 | CHUM | 209 | 91 | M | N/A | N/A | | |
| HS9735-034-112-056 | CHUM | 260 | 217 | F | N/A | N/A | | |
| HS9735-035-112-001 | CHUM | 230 | 131 | M | N/A | N/A | | |
| HS9735-036-112-001 | CHUM | 275 | 233 | F | N/A | N/A | | G96-CHUM |
| HS9735-036-112-002 | CHUM | 245 | 173 | M | N/A | N/A | | |
| HS9735-036-112-003 | CHUM | 245 | 144 | F | N/A | N/A | | G96-CHUM |
| HS9735-036-112-004 | CHUM | 260 | 187 | M | N/A | N/A | | |
| HS9735-036-112-005 | CHUM | 243 | 156 | M | N/A | N/A | | |
| HS9735-036-112-006 | CHUM | 268 | 213 | F | N/A | N/A | | G96-CHUM |
| HS9735-036-112-007 | CHUM | 258 | 190 | M | N/A | N/A | | |
| HS9735-036-112-008 | CHUM | 260 | 216 | F | N/A | N/A | | HF96-CHUM |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-036-112-009 | CHUM | 237 | 142 | F | N/A | N/A | | |
| HS9735-036-112-010 | CHUM | 255 | 172 | F | N/A | N/A | | HF96-CHUM |
| HS9735-036-112-011 | CHUM | 253 | 176 | M | N/A | N/A | | HF96-CHUM |
| HS9735-036-112-012 | CHUM | 233 | 134 | F | N/A | N/A | | |
| HS9735-036-112-013 | CHUM | 265 | 213 | F | N/A | N/A | | |
| HS9735-036-112-014 | CHUM | 257 | 203 | F | N/A | N/A | | |
| HS9735-036-112-015 | CHUM | 265 | 216 | F | N/A | N/A | | |
| HS9735-036-112-016 | CHUM | 233 | 142 | F | N/A | N/A | | |
| HS9735-036-112-017 | CHUM | 245 | 167 | F | N/A | N/A | | HF96-CHUM |
| HS9735-036-112-018 | CHUM | 265 | 197 | M | N/A | N/A | | |
| HS9735-036-112-019 | CHUM | 253 | 196 | M | N/A | N/A | | |
| HS9735-036-112-020 | CHUM | 215 | 103 | M | N/A | N/A | | |
| HS9735-036-112-021 | CHUM | 238 | 148 | F | N/A | N/A | | |
| HS9735-036-112-022 | CHUM | 240 | 166 | M | N/A | N/A | | |
| HS9735-036-112-023 | CHUM | 242 | 164 | F | N/A | N/A | | |
| HS9735-036-112-024 | CHUM | 215 | 105 | M | N/A | N/A | | |
| HS9735-036-112-025 | CHUM | 227 | 127 | M | N/A | N/A | | HF96-CHUM |
| HS9735-036-112-026 | CHUM | 266 | 210 | M | N/A | N/A | | |
| HS9735-036-112-027 | CHUM | 245 | 158 | F | N/A | N/A | | HF96-CHUM |
| HS9735-036-112-028 | CHUM | 250 | 178 | M | N/A | N/A | | |
| HS9735-036-112-029 | CHUM | 242 | 152 | M | N/A | N/A | | G96-CHUM |
| HS9735-036-112-030 | CHUM | 264 | 208 | F | N/A | N/A | | |
| HS9735-036-112-031 | CHUM | 215 | 129 | M | N/A | N/A | | G96-CHUM |
| HS9735-036-112-032 | CHUM | 224 | 123 | M | N/A | N/A | | |
| HS9735-036-112-033 | CHUM | 243 | 194 | M | N/A | N/A | | |
| HS9735-036-112-034 | CHUM | 269 | 245 | F | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-036-112-035 | CHUM | 212 | 131 | M | N/A | N/A | | G96-CHUM |
| HS9735-036-112-036 | CHUM | 254 | 200 | M | N/A | N/A | | |
| HS9735-036-112-037 | CHUM | 253 | 213 | M | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-036-112-038 | CHUM | 258 | 236 | F | N/A | N/A | | |
| HS9735-036-112-039 | CHUM | 251 | 205 | F | N/A | N/A | | |
| HS9735-036-112-040 | CHUM | 235 | 168 | F | N/A | N/A | | |
| HS9735-036-112-041 | CHUM | 235 | 174 | M | N/A | N/A | | |
| HS9735-036-112-042 | CHUM | 241 | 169 | M | N/A | N/A | | |
| HS9735-036-112-043 | CHUM | 203 | 113 | F | N/A | N/A | | |
| HS9735-036-112-044 | CHUM | 210 | 111 | F | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-036-112-045 | CHUM | 246 | 185 | F | N/A | N/A | | |
| HS9735-036-112-046 | CHUM | 235 | 165 | F | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-036-112-047 | CHUM | 246 | 178 | M | N/A | N/A | | |
| HS9735-036-112-048 | CHUM | 222 | 137 | M | N/A | N/A | | |
| HS9735-036-112-049 | CHUM | 247 | 181 | F | N/A | N/A | | |
| HS9735-036-112-050 | CHUM | 234 | 160 | M | N/A | N/A | | G96-CHUM |
| HS9735-036-112-051 | CHUM | 239 | 159 | M | N/A | N/A | | WHN-PC96EARLY-CHUM |
| HS9735-036-112-052 | CHUM | 247 | 184 | M | N/A | N/A | | |
| HS9735-036-112-053 | CHUM | 256 | 228 | M | N/A | N/A | | |
| HS9735-036-112-054 | CHUM | 234 | 159 | F | N/A | N/A | | G96-CHUM |
| HS9735-036-112-055 | CHUM | 256 | 218 | M | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-036-112-056 | CHUM | 223 | 143 | M | N/A | N/A | | |
| HS9735-036-112-057 | CHUM | 249 | 187 | F | N/A | N/A | | WHN96EARLY-CHUM |
| HS9735-036-112-058 | CHUM | 251 | 193 | M | N/A | N/A | | |
| HS9735-036-112-059 | CHUM | 205 | 105 | F | N/A | N/A | | |
| HS9735-036-112-060 | CHUM | 242 | 167 | F | N/A | N/A | | G96-CHUM |
| HS9735-036-112-061 | CHUM | 223 | 133 | M | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-046-112-001 | CHUM | 240 | 152 | M | 1.33 | 76.42 | | |
| HS9735-046-112-002 | CHUM | 250 | 170 | M | 1.33 | 76.44 | | WHN96LATE-CHUM |
| HS9735-046-112-003 | CHUM | 193 | 68 | M | 0.32 | 80.82 | | |
| HS9735-047-112-001 | CHUM | 242 | 154 | M | 3.17 | 76.68 | | |
| HS9735-049-112-001 | CHUM | 228 | 135 | M | 2.56 | 76.03 | | |
| HS9735-049-112-002 | CHUM | 240 | 139 | M | 1.88 | 76.92 | | |
| HS9735-049-112-003 | CHUM | 218 | 106 | F | 1.94 | 79.54 | | WHN96LATE-CHUM |
| HS9735-049-112-004 | CHUM | 237 | 143 | M | 2.74 | 78.16 | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-049-112-005 | CHUM | 230 | 136 | F | 1.92 | 76.66 | | HF96-CHUM |
| HS9735-049-112-006 | CHUM | 253 | 180 | F | 3.64 | 75.69 | | |
| HS9735-049-112-007 | CHUM | 239 | 155 | F | 3.41 | 77.61 | | |
| HS9735-049-112-008 | CHUM | 217 | 102 | F | 1.26 | 77.48 | | |
| HS9735-049-112-009 | CHUM | 232 | 139 | F | 2.48 | 75.10 | | HF96-CHUM |
| HS9735-049-112-010 | CHUM | 221 | 119 | M | 1.77 | 77.07 | | |
| HS9735-049-112-011 | CHUM | 221 | 113 | F | 2.71 | 78.12 | | |
| HS9735-049-112-012 | CHUM | 241 | 158 | F | 3.23 | 75.12 | | |
| HS9735-049-112-013 | CHUM | 237 | 144 | M | 2.16 | 77.86 | | HF96-CHUM |
| HS9735-049-112-014 | CHUM | 252 | 209 | M | 11.54 | 76.75 | | |
| HS9735-049-112-015 | CHUM | 233 | 139 | F | 2.70 | 75.31 | | |
| HS9735-049-112-016 | CHUM | 220 | 115 | F | 1.78 | 77.57 | | WHN-PC96LATE-CHUM |
| HS9735-049-112-017 | CHUM | 225 | 121 | F | 1.62 | 78.95 | | |
| HS9735-049-112-018 | CHUM | 215 | 113 | M | 1.87 | 79.30 | | |
| HS9735-049-112-019 | CHUM | 240 | 175 | F | 2.82 | 77.56 | | |
| HS9735-049-112-020 | CHUM | 220 | 111 | F | 1.53 | 78.00 | | G96-CHUM |
| HS9735-049-112-021 | CHUM | 230 | 124 | F | 0.98 | 77.80 | | |
| HS9735-050-112-001 | CHUM | 241 | 167 | M | 4.44 | 75.73 | | |
| HS9735-056-112-001 | CHUM | 260 | 200 | M | 0.85 | 74.29 | | |
| HS9735-056-112-002 | CHUM | 231 | 133 | M | 0.58 | 75.49 | | WHN96LATE-CHUM |
| HS9735-057-112-001 | CHUM | 262 | 204 | M | 1.33 | 73.93 | | |
| HS9735-057-112-002 | CHUM | 262 | 179 | F | 1.41 | 74.84 | | WHN-PC96LATE-CHUM |
| HS9735-057-112-003 | CHUM | 260 | 193 | M | 0.91 | 72.90 | | HF96-CHUM |
| HS9735-057-112-004 | CHUM | 234 | 137 | M | 0.83 | 75.36 | | |
| HS9735-057-112-005 | CHUM | 260 | 219 | M | 0.59 | 75.85 | | HF96-CHUM |
| HS9735-057-112-006 | CHUM | 248 | 169 | M | 0.41 | 75.85 | | |
| HS9735-057-112-007 | CHUM | 274 | 250 | M | 2.52 | 72.36 | | HF96-CHUM |
| HS9735-057-112-008 | CHUM | 243 | 174 | M | 1.39 | 75.04 | | |
| HS9735-057-112-009 | CHUM | 223 | 135 | F | 0.44 | 77.59 | | |
| HS9735-057-112-010 | CHUM | 246 | 156 | M | 0.96 | 75.38 | | |
| HS9735-057-112-011 | CHUM | 250 | 194 | M | 1.08 | 73.90 | | |
| HS9735-057-112-012 | CHUM | 243 | 170 | F | 2.18 | 74.63 | | |
| HS9735-057-112-013 | CHUM | 259 | 187 | F | 1.84 | 74.94 | | |
| HS9735-057-112-014 | CHUM | 250 | 191 | M | 2.05 | 74.00 | | |
| HS9735-057-112-015 | CHUM | 240 | 157 | M | 1.76 | 75.28 | | |
| HS9735-057-112-016 | CHUM | 259 | 210 | M | 2.10 | 73.67 | | WHN96LATE-CHUM |
| HS9735-057-112-017 | CHUM | 245 | 179 | F | 0.71 | 75.03 | | |
| HS9735-057-112-018 | CHUM | 252 | 189 | M | 1.29 | 76.11 | | |
| HS9735-057-112-019 | CHUM | 253 | 180 | F | 2.23 | 74.07 | | |
| HS9735-057-112-020 | CHUM | 242 | 166 | M | 0.92 | 76.63 | | |
| HS9735-057-112-021 | CHUM | 252 | 184 | M | 0.72 | 76.69 | | |
| HS9735-057-112-022 | CHUM | 237 | 154 | M | 1.30 | 74.37 | | HF96-CHUM |
| HS9735-057-112-023 | CHUM | 244 | 160 | F | 0.94 | 77.76 | | |
| HS9735-057-112-024 | CHUM | 235 | 149 | M | 1.09 | 75.56 | | HF96-CHUM |
| HS9735-057-112-025 | CHUM | 236 | 145 | M | 1.39 | 74.15 | | G96-CHUM |
| HS9735-057-112-026 | CHUM | 269 | 228 | M | 2.49 | 72.94 | | |
| HS9735-057-112-027 | CHUM | 244 | 177 | F | 0.82 | 74.15 | | HF96-CHUM |
| HS9735-057-112-028 | CHUM | 252 | 200 | F | 2.51 | 73.77 | | |
| HS9735-057-112-029 | CHUM | 251 | 190 | M | 1.54 | 74.05 | | HF96-CHUM |
| HS9735-057-112-030 | CHUM | 258 | 205 | F | 1.52 | 72.46 | | |
| HS9735-057-112-031 | CHUM | 258 | 182 | M | 1.44 | 73.06 | | G96-CHUM |
| HS9735-057-112-032 | CHUM | 252 | 191 | F | 0.82 | 75.41 | | WHN-PC96LATE-CHUM |
| HS9735-057-112-033 | CHUM | 258 | 204 | F | 1.62 | 74.43 | | HF96-CHUM |
| HS9735-057-112-034 | CHUM | 248 | 166 | M | 1.10 | 73.93 | | |
| HS9735-057-112-035 | CHUM | 251 | 202 | M | 2.38 | 73.35 | | |
| HS9735-057-112-036 | CHUM | 235 | 151 | M | 0.52 | 75.68 | | |
| HS9735-057-112-037 | CHUM | 243 | 182 | F | 0.35 | 76.07 | | WHN96LATE-CHUM |
| HS9735-057-112-038 | CHUM | 237 | 153 | M | 0.76 | 72.94 | | WHN96LATE-CHUM |
| HS9735-057-112-039 | CHUM | 238 | 147 | M | 1.82 | 76.79 | | |
| HS9735-057-112-040 | CHUM | 250 | 166 | F | 1.32 | 76.38 | | HF96-CHUM |
| HS9735-057-112-041 | CHUM | 268 | 216 | F | 1.98 | 73.48 | | G96-CHUM |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-057-112-042 | CHUM | 243 | 169 | M | 1.09 | 75.71 | | WHN96LATE-CHUM |
| HS9735-057-112-043 | CHUM | 246 | 168 | F | 0.73 | 74.68 | | HF96-CHUM |
| HS9735-057-112-044 | CHUM | 255 | 193 | F | 1.26 | 74.92 | | WHN96LATE-CHUM |
| HS9735-057-112-045 | CHUM | 246 | 166 | M | 1.04 | 74.07 | | |
| HS9735-057-112-046 | CHUM | 268 | 210 | F | 0.72 | 74.89 | | |
| HS9735-057-112-047 | CHUM | 267 | 223 | F | 2.49 | 73.68 | | WHN96LATE-CHUM |
| HS9735-057-112-048 | CHUM | 252 | 185 | M | 1.49 | 72.68 | | |
| HS9735-057-112-049 | CHUM | 263 | 194 | F | 0.81 | 74.98 | | |
| HS9735-057-112-050 | CHUM | 247 | 188 | M | 1.85 | 71.75 | | HF96-CHUM |
| HS9735-057-112-051 | CHUM | 238 | 151 | M | 1.06 | 77.52 | | HF96-CHUM |
| HS9735-057-112-052 | CHUM | 258 | 192 | F | 0.90 | 74.57 | | |
| HS9735-057-112-053 | CHUM | 240 | 168 | M | 1.63 | 75.56 | | |
| HS9735-057-112-054 | CHUM | 235 | 161 | F | 2.00 | 76.14 | | |
| HS9735-057-112-055 | CHUM | 271 | 238 | F | 1.00 | 71.72 | | |
| HS9735-057-112-056 | CHUM | 249 | 166 | F | 1.56 | 77.83 | | |
| HS9735-057-112-057 | CHUM | 245 | 159 | M | 1.15 | 74.67 | | |
| HS9735-057-112-058 | CHUM | 240 | 156 | M | 2.19 | 75.10 | | |
| HS9735-057-112-059 | CHUM | 227 | 134 | M | 1.11 | 75.75 | | |
| HS9735-057-112-060 | CHUM | 225 | 124 | M | 1.25 | 75.96 | | |
| HS9735-057-112-061 | CHUM | 240 | 155 | F | N/A | N/A | | |
| HS9735-057-112-062 | CHUM | 225 | 130 | M | 1.55 | 76.74 | | |
| HS9735-057-112-063 | CHUM | 218 | 106 | F | 1.15 | 77.99 | | |
| HS9735-057-112-064 | CHUM | 239 | 144 | M | 1.29 | 76.83 | | AFK96-CHUM |
| HS9735-057-112-065 | CHUM | 225 | 131 | F | 0.16 | 76.14 | | |
| HS9735-057-112-066 | CHUM | 216 | 112 | F | 0.57 | 76.63 | | AFK96-CHUM |
| HS9735-057-112-067 | CHUM | 228 | 138 | F | 0.62 | 75.29 | | |
| HS9735-057-112-068 | CHUM | 222 | 105 | F | 0.49 | 79.61 | | HF96-CHUM |
| HS9735-057-112-069 | CHUM | 232 | 122 | M | 1.45 | 74.80 | | |
| HS9735-057-112-070 | CHUM | 230 | 139 | M | 0.65 | 74.77 | | WHN96LATE-CHUM |
| HS9735-057-112-071 | CHUM | 230 | 124 | M | 0.86 | 78.58 | | |
| HS9735-057-112-072 | CHUM | 207 | 89 | F | 0.37 | 79.32 | | |
| HS9735-057-112-073 | CHUM | 207 | 96 | F | 0.61 | 77.38 | | |
| HS9735-057-112-074 | CHUM | 263 | 201 | F | N/A | N/A | | |
| HS9735-057-112-075 | CHUM | 250 | 165 | M | N/A | N/A | | |
| HS9735-057-112-076 | CHUM | 217 | 111 | M | N/A | N/A | | |
| HS9735-060-112-001 | CHUM | 268 | 203 | F | 0.71 | 74.38 | | WHN-PC96LATE-CHUM |
| HS9735-060-112-002 | CHUM | 232 | 141 | F | 0.32 | 75.09 | | |
| HS9735-061-112-001 | CHUM | 245 | 171 | M | 0.00 | 74.89 | | |
| HS9735-061-112-002 | CHUM | 264 | 189 | M | 0.00 | 74.91 | | WHN96LATE-CHUM |
| HS9735-061-112-003 | CHUM | 247 | 144 | M | 0.15 | 75.02 | | |
| HS9735-061-112-004 | CHUM | 261 | 175 | M | 0.00 | 74.67 | | |
| HS9735-061-112-005 | CHUM | 230 | 116 | F | 0.00 | 75.16 | | |
| HS9735-061-112-006 | CHUM | 252 | 149 | F | 0.00 | 74.78 | | |
| HS9735-061-112-007 | CHUM | 270 | 185 | M | 0.18 | 73.96 | | HF96-CHUM |
| HS9735-061-112-008 | CHUM | 232 | 130 | M | 0.00 | 77.06 | | |
| HS9735-061-112-009 | CHUM | 259 | 165 | M | 0.00 | 75.21 | | |
| HS9735-061-112-010 | CHUM | 244 | 163 | F | 0.00 | 72.35 | | |
| HS9735-061-112-011 | CHUM | 233 | 131 | M | 0.00 | 76.17 | | G96-CHUM |
| HS9735-061-112-012 | CHUM | 263 | 169 | M | 0.00 | 75.37 | | |
| HS9735-061-112-013 | CHUM | 267 | 209 | M | 0.00 | 73.11 | | |
| HS9735-062-112-001 | CHUM | 239 | 147 | M | N/A | N/A | | |
| HS9735-062-112-002 | CHUM | 245 | 157 | M | N/A | N/A | | G96-CHUM |
| HS9735-062-112-003 | CHUM | 257 | 181 | F | N/A | N/A | | G96-CHUM |
| HS9735-062-112-004 | CHUM | 250 | 174 | M | N/A | N/A | | WHN96LATE-CHUM |
| HS9735-062-112-005 | CHUM | 212 | 102 | M | N/A | N/A | | |
| HS9735-062-112-006 | CHUM | 234 | 142 | M | N/A | N/A | | |
| HS9735-063-112-001 | CHUM | 245 | 151 | M | 0.23 | 74.70 | | HF96-CHUM |
| HS9735-063-112-002 | CHUM | 234 | 129 | M | 0.54 | 76.86 | | |
| HS9735-063-112-003 | CHUM | 261 | 190 | F | 1.16 | 73.52 | | |
| HS9735-063-112-004 | CHUM | 271 | 208 | F | 0.63 | 74.88 | | HF96-CHUM |
| HS9735-063-112-005 | CHUM | 271 | 228 | F | 0.38 | 71.36 | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-063-112-006 | CHUM | 246 | 162 | M | 0.05 | 74.72 | | |
| HS9735-063-112-007 | CHUM | 273 | 230 | M | 0.22 | 73.49 | | AFK96-CHUM |
| HS9735-063-112-008 | CHUM | 247 | 150 | F | 0.27 | 76.68 | | |
| HS9735-063-112-009 | CHUM | 261 | 183 | F | 0.50 | 74.11 | | WHN96LATE-CHUM |
| HS9735-063-112-010 | CHUM | 250 | 175 | F | 0.12 | 74.59 | | G96-CHUM |
| HS9735-063-112-011 | CHUM | 235 | 135 | F | 0.27 | 74.19 | | |
| HS9735-063-112-012 | CHUM | 269 | 204 | F | 0.72 | 72.44 | | G96-CHUM |
| HS9735-063-112-013 | CHUM | 258 | 186 | F | 0.19 | 73.63 | | |
| HS9735-063-112-014 | CHUM | 250 | 150 | M | 0.76 | 74.44 | | G96-CHUM |
| HS9735-063-112-015 | CHUM | 248 | 157 | F | 0.45 | 77.39 | | G96-CHUM |
| HS9735-063-112-016 | CHUM | 249 | 170 | F | 0.04 | 75.86 | | G96-CHUM |
| HS9735-063-112-017 | CHUM | 236 | 138 | M | 0.70 | 77.47 | | |
| HS9735-063-112-018 | CHUM | 243 | 151 | M | 0.05 | 76.26 | | |
| HS9735-063-112-019 | CHUM | 225 | 110 | F | 1.84 | 77.86 | | WHN96EARLY-CHUM |
| HS9735-063-112-020 | CHUM | 236 | 143 | F | 0.00 | 76.55 | | |
| HS9735-063-112-021 | CHUM | 255 | 177 | M | 0.88 | 74.81 | | |
| HS9735-063-112-022 | CHUM | 245 | 174 | M | 1.80 | 74.49 | | HF96-CHUM |
| HS9735-063-112-023 | CHUM | 260 | 201 | F | 1.20 | 72.76 | | G96-CHUM |
| HS9735-063-112-024 | CHUM | 268 | 210 | M | 0.97 | 72.47 | | |
| HS9735-063-112-025 | CHUM | 238 | 141 | F | N/A | N/A | | |
| HS9735-063-112-026 | CHUM | 248 | 159 | M | 0.86 | 74.88 | | HF96-CHUM |
| HS9735-063-112-027 | CHUM | 237 | 155 | M | 0.54 | 77.06 | | G96-CHUM |
| HS9735-063-112-028 | CHUM | 240 | 145 | M | 0.42 | 73.44 | | |
| HS9735-063-112-029 | CHUM | 249 | 161 | F | 0.67 | 75.46 | | G96-CHUM |
| HS9735-063-112-030 | CHUM | 243 | 151 | M | 0.22 | 75.05 | | |
| HS9735-063-112-031 | CHUM | 243 | 166 | F | 0.65 | 75.83 | | |
| HS9735-063-112-032 | CHUM | 247 | 172 | M | 1.16 | 75.94 | | G96-CHUM |
| HS9735-063-112-033 | CHUM | 249 | 163 | F | 0.60 | 75.34 | | WHN-PC96LATE-CHUM |
| HS9735-063-112-034 | CHUM | 280 | 239 | F | 1.51 | 74.39 | | |
| HS9735-065-112-001 | CHUM | 257 | 173 | F | 1.57 | 75.37 | | WHN96LATE-CHUM |
| HS9735-065-112-002 | CHUM | 257 | 190 | M | 1.04 | 74.00 | | |
| HS9735-065-112-003 | CHUM | 259 | 191 | M | 2.44 | 74.66 | | HF96-CHUM |
| HS9735-065-112-004 | CHUM | 269 | 218 | M | 1.56 | 74.39 | | WHN96LATE-CHUM |
| HS9735-032-115-001 | COHO | 321 | 357 | M | N/A | N/A | | |
| HS9735-032-115-002 | COHO | 305 | 323 | F | N/A | N/A | | |
| HS9735-032-115-003 | COHO | 313 | 374 | F | N/A | N/A | | |
| HS9735-032-115-004 | COHO | 281 | 267 | F | N/A | N/A | | |
| HS9735-032-115-005 | COHO | 340 | 456 | M | N/A | N/A | | |
| HS9735-032-115-006 | COHO | 316 | 346 | M | N/A | N/A | | |
| HS9735-038-115-001 | COHO | 386 | 733 | F | 0.00 | 72.90 | | |
| HS9735-038-115-002 | COHO | 367 | 613 | M | 0.00 | 71.90 | | |
| HS9735-038-115-003 | COHO | 390 | 721 | F | 0.00 | 69.82 | | |
| HS9735-038-115-004 | COHO | 340 | 455 | M | 0.00 | 73.91 | | |
| HS9735-045-115-001 | COHO | 351 | 498 | M | 0.00 | 73.46 | | |
| HS9735-045-115-002 | COHO | 390 | 694 | M | 0.00 | 75.10 | | |
| HS9735-045-115-003 | COHO | 368 | 594 | M | 0.00 | 71.91 | | |
| HS9735-045-115-004 | COHO | 326 | 421 | M | 0.00 | 73.51 | | |
| HS9735-045-115-005 | COHO | 374 | 610 | M | 0.00 | 73.37 | | |
| HS9735-045-115-006 | COHO | 360 | 562 | F | 0.00 | 74.83 | | |
| HS9735-045-115-007 | COHO | 369 | 512 | F | 0.00 | 75.37 | | |
| HS9735-045-115-008 | COHO | 375 | 634 | M | 0.00 | 72.75 | | |
| HS9735-045-115-009 | COHO | 348 | 516 | M | 0.00 | 72.16 | | |
| HS9735-045-115-010 | COHO | 371 | 588 | F | 0.00 | 75.52 | | |
| HS9735-045-115-011 | COHO | 356 | 539 | F | 0.00 | 75.80 | | |
| HS9735-045-115-012 | COHO | 355 | 506 | F | 0.00 | 73.77 | | G95-COHO |
| HS9735-045-115-013 | COHO | 340 | 470 | M | 0.00 | 75.27 | | |
| HS9735-045-115-014 | COHO | 352 | 486 | M | 0.00 | 74.94 | | |
| HS9735-045-115-015 | COHO | 362 | 570 | M | 0.00 | 77.22 | | |
| HS9735-045-115-016 | COHO | 332 | 391 | M | 0.00 | 76.65 | | |
| HS9735-045-115-017 | COHO | 342 | 491 | F | 0.07 | 73.68 | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-019-108-001 | PINK | 236 | 132 | N/A | 4.05 | 77.58 | | |
| HS9735-019-108-002 | PINK | 297 | 271 | N/A | 8.00 | 76.91 | | |
| HS9735-019-108-003 | PINK | 261 | 170 | N/A | 4.05 | 76.23 | | |
| HS9735-019-108-004 | PINK | 218 | 115 | N/A | 5.58 | 76.81 | | |
| HS9735-019-108-005 | PINK | 225 | 117 | N/A | 4.17 | 75.72 | | |
| HS9735-032-108-001 | PINK | 235 | 115 | F | 3.29 | 76.74 | | |
| HS9735-032-108-002 | PINK | 245 | 140 | F | 0.00 | 73.88 | | |
| HS9735-032-108-003 | PINK | 250 | 148 | F | 0.00 | 76.36 | | |
| HS9735-032-108-004 | PINK | 268 | 162 | M | 0.20 | 77.10 | | |
| HS9735-032-108-005 | PINK | 255 | 151 | M | 0.00 | 77.32 | | |
| HS9735-032-108-006 | PINK | 297 | 254 | M | 0.00 | 76.54 | | SG96-PINK |
| HS9735-032-108-007 | PINK | 251 | 153 | M | 0.43 | 74.78 | | |
| HS9735-032-108-008 | PINK | 258 | 158 | M | 1.66 | 75.61 | | |
| HS9735-032-108-009 | PINK | 242 | 123 | M | 0.35 | 76.92 | | |
| HS9735-032-108-010 | PINK | 240 | 133 | F | 0.45 | 75.10 | | |
| HS9735-032-108-011 | PINK | 268 | 197 | M | 0.00 | 77.32 | | SG96-PINK |
| HS9735-032-108-012 | PINK | 232 | 118 | F | 0.00 | 77.17 | | |
| HS9735-032-108-013 | PINK | 254 | 151 | M | 0.00 | 75.64 | | |
| HS9735-032-108-014 | PINK | 226 | 120 | F | 5.32 | 78.71 | | |
| HS9735-032-108-015 | PINK | 266 | 184 | F | 1.17 | 76.14 | | |
| HS9735-032-108-016 | PINK | 234 | 121 | F | N/A | N/A | | |
| HS9735-032-108-017 | PINK | 233 | 117 | M | N/A | N/A | | |
| HS9735-032-108-018 | PINK | 248 | 161 | F | N/A | N/A | | |
| HS9735-032-108-019 | PINK | 243 | 132 | M | N/A | N/A | | |
| HS9735-032-108-020 | PINK | 253 | 153 | F | N/A | N/A | | |
| HS9735-032-108-021 | PINK | 219 | 95 | M | N/A | N/A | | |
| HS9735-032-108-022 | PINK | 225 | 112 | F | N/A | N/A | | |
| HS9735-032-108-023 | PINK | 224 | 110 | M | N/A | N/A | | |
| HS9735-032-108-024 | PINK | 248 | 146 | M | N/A | N/A | | |
| HS9735-032-108-025 | PINK | 236 | 131 | M | N/A | N/A | | |
| HS9735-032-108-026 | PINK | 246 | 160 | M | N/A | N/A | | |
| HS9735-032-108-027 | PINK | 267 | 184 | M | N/A | N/A | | |
| HS9735-032-108-028 | PINK | 250 | 134 | F | N/A | N/A | | |
| HS9735-032-108-029 | PINK | 263 | 173 | F | N/A | N/A | | |
| HS9735-032-108-030 | PINK | 265 | 187 | M | N/A | N/A | | |
| HS9735-032-108-031 | PINK | 263 | 193 | M | N/A | N/A | | |
| HS9735-032-108-032 | PINK | 233 | 128 | M | N/A | N/A | | WHN96LATE-PINK |
| HS9735-032-108-033 | PINK | 259 | 180 | M | N/A | N/A | | |
| HS9735-032-108-034 | PINK | 229 | 127 | M | N/A | N/A | | |
| HS9735-032-108-035 | PINK | 229 | 119 | F | N/A | N/A | | |
| HS9735-032-108-036 | PINK | 238 | 146 | F | N/A | N/A | | |
| HS9735-032-108-037 | PINK | 216 | 106 | F | N/A | N/A | | |
| HS9735-032-108-038 | PINK | 253 | 194 | F | N/A | N/A | | |
| HS9735-032-108-039 | PINK | 270 | 196 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-040 | PINK | 252 | 165 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-041 | PINK | 239 | 155 | F | N/A | N/A | | |
| HS9735-032-108-042 | PINK | 246 | 148 | F | N/A | N/A | | |
| HS9735-032-108-043 | PINK | 248 | 157 | M | N/A | N/A | | |
| HS9735-032-108-044 | PINK | 225 | 114 | F | N/A | N/A | | |
| HS9735-032-108-045 | PINK | 234 | 134 | M | N/A | N/A | | |
| HS9735-032-108-046 | PINK | 235 | 133 | F | N/A | N/A | | AFK96LATE-PINK |
| HS9735-032-108-047 | PINK | 235 | 129 | F | N/A | N/A | | |
| HS9735-032-108-048 | PINK | 255 | 163 | M | N/A | N/A | | |
| HS9735-032-108-049 | PINK | 225 | 130 | F | N/A | N/A | | |
| HS9735-032-108-050 | PINK | 249 | 150 | M | N/A | N/A | | AFK96LATE-PINK |
| HS9735-032-108-051 | PINK | 249 | 161 | M | N/A | N/A | | |
| HS9735-032-108-052 | PINK | 242 | 151 | M | N/A | N/A | | CC96-PINK |
| HS9735-032-108-053 | PINK | 244 | 148 | M | N/A | N/A | | WHN96EARLY-PINK |
| HS9735-032-108-054 | PINK | 232 | 155 | M | N/A | N/A | | AFK96LATE-PINK |
| HS9735-032-108-055 | PINK | 261 | 171 | F | N/A | N/A | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-032-108-056 | PINK | 252 | 150 | M | N/A | N/A | | AFK96LATE-PINK |
| HS9735-032-108-057 | PINK | 250 | 173 | M | N/A | N/A | | SG96-PINK |
| HS9735-032-108-058 | PINK | 279 | 229 | F | N/A | N/A | | |
| HS9735-032-108-059 | PINK | 278 | 247 | F | N/A | N/A | | |
| HS9735-032-108-060 | PINK | 233 | 134 | F | N/A | N/A | | |
| HS9735-032-108-061 | PINK | 256 | 169 | F | N/A | N/A | | |
| HS9735-032-108-062 | PINK | 238 | 142 | M | N/A | N/A | | |
| HS9735-032-108-063 | PINK | 262 | 175 | F | N/A | N/A | | WHN96LATE-PINK |
| HS9735-032-108-064 | PINK | 249 | 168 | M | N/A | N/A | | |
| HS9735-032-108-065 | PINK | 255 | 172 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-066 | PINK | 246 | 140 | M | N/A | N/A | | |
| HS9735-032-108-067 | PINK | 258 | 188 | M | N/A | N/A | | |
| HS9735-032-108-068 | PINK | 227 | 120 | F | N/A | N/A | | |
| HS9735-032-108-069 | PINK | 259 | 178 | M | N/A | N/A | | |
| HS9735-032-108-070 | PINK | 227 | 118 | F | N/A | N/A | | |
| HS9735-032-108-071 | PINK | 253 | 162 | M | N/A | N/A | | |
| HS9735-032-108-072 | PINK | 250 | 150 | M | N/A | N/A | | |
| HS9735-032-108-073 | PINK | 230 | 123 | M | N/A | N/A | | |
| HS9735-032-108-074 | PINK | 229 | 114 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-075 | PINK | 246 | 160 | M | N/A | N/A | | CC96-PINK |
| HS9735-032-108-076 | PINK | 259 | 196 | M | N/A | N/A | | |
| HS9735-032-108-077 | PINK | 253 | 160 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-078 | PINK | 269 | 207 | F | N/A | N/A | | |
| HS9735-032-108-079 | PINK | 310 | 323 | M | N/A | N/A | | |
| HS9735-032-108-080 | PINK | 247 | 145 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-081 | PINK | 253 | 183 | F | N/A | N/A | | |
| HS9735-032-108-082 | PINK | 247 | 133 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-083 | PINK | 233 | 131 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-084 | PINK | 242 | 155 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-085 | PINK | 289 | 269 | M | N/A | N/A | | |
| HS9735-032-108-086 | PINK | 249 | 145 | M | N/A | N/A | | WHN96LATE-PINK |
| HS9735-032-108-087 | PINK | 238 | 147 | M | N/A | N/A | | |
| HS9735-032-108-088 | PINK | 242 | 139 | M | N/A | N/A | | |
| HS9735-032-108-089 | PINK | 242 | 140 | F | N/A | N/A | | |
| HS9735-032-108-090 | PINK | 230 | 135 | F | N/A | N/A | | |
| HS9735-032-108-091 | PINK | 257 | 179 | F | N/A | N/A | | |
| HS9735-032-108-092 | PINK | 225 | 99 | M | N/A | N/A | | |
| HS9735-032-108-093 | PINK | 244 | 158 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-094 | PINK | 233 | 128 | M | N/A | N/A | | CC96-PINK |
| HS9735-032-108-095 | PINK | 265 | 186 | M | N/A | N/A | | G96-PINK |
| HS9735-032-108-096 | PINK | 227 | 108 | F | N/A | N/A | | CC96-PINK |
| HS9735-032-108-097 | PINK | 274 | 228 | F | N/A | N/A | | |
| HS9735-032-108-098 | PINK | 250 | 160 | M | N/A | N/A | | |
| HS9735-032-108-099 | PINK | 244 | 157 | F | N/A | N/A | | |
| HS9735-032-108-100 | PINK | 232 | 129 | M | N/A | N/A | | |
| HS9735-032-108-101 | PINK | 243 | 139 | F | N/A | N/A | | |
| HS9735-032-108-102 | PINK | 244 | 148 | F | N/A | N/A | | |
| HS9735-032-108-103 | PINK | 245 | 163 | M | N/A | N/A | | |
| HS9735-032-108-104 | PINK | 250 | 146 | M | N/A | N/A | | |
| HS9735-032-108-105 | PINK | 251 | 158 | F | N/A | N/A | | |
| HS9735-032-108-106 | PINK | 294 | 279 | M | N/A | N/A | | |
| HS9735-032-108-107 | PINK | 288 | 270 | M | N/A | N/A | | SG96-PINK |
| HS9735-032-108-108 | PINK | 217 | 113 | F | N/A | N/A | | |
| HS9735-032-108-109 | PINK | 240 | 135 | M | N/A | N/A | | |
| HS9735-032-108-110 | PINK | 256 | 196 | F | N/A | N/A | | |
| HS9735-032-108-111 | PINK | 250 | 158 | F | N/A | N/A | | WHN96LATE-PINK |
| HS9735-032-108-112 | PINK | 240 | 133 | M | N/A | N/A | | |
| HS9735-032-108-113 | PINK | 261 | 172 | M | N/A | N/A | | SG96-PINK |
| HS9735-032-108-114 | PINK | 227 | 139 | F | N/A | N/A | | |
| HS9735-032-108-115 | PINK | 237 | 161 | M | N/A | N/A | | |
| HS9735-032-108-116 | PINK | 239 | 143 | M | N/A | N/A | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-032-108-117 | PINK | 247 | 169 | F | N/A | N/A | | |
| HS9735-032-108-118 | PINK | 242 | 134 | M | N/A | N/A | | |
| HS9735-032-108-119 | PINK | 248 | 163 | M | N/A | N/A | | |
| HS9735-032-108-120 | PINK | 251 | 182 | M | N/A | N/A | | |
| HS9735-032-108-121 | PINK | 249 | 163 | M | N/A | N/A | | |
| HS9735-032-108-122 | PINK | 250 | 165 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-123 | PINK | 245 | 164 | F | N/A | N/A | | |
| HS9735-032-108-124 | PINK | 257 | 178 | M | N/A | N/A | | |
| HS9735-032-108-125 | PINK | 264 | 181 | M | N/A | N/A | | |
| HS9735-032-108-126 | PINK | 219 | 115 | M | N/A | N/A | | |
| HS9735-032-108-127 | PINK | 250 | 163 | M | N/A | N/A | | WHN96EARLY-PINK |
| HS9735-032-108-128 | PINK | 242 | 152 | F | N/A | N/A | | |
| HS9735-032-108-129 | PINK | 234 | 136 | F | N/A | N/A | | |
| HS9735-032-108-130 | PINK | 228 | 130 | M | N/A | N/A | | |
| HS9735-032-108-131 | PINK | 225 | 124 | M | N/A | N/A | | |
| HS9735-032-108-132 | PINK | 234 | 134 | F | N/A | N/A | | |
| HS9735-032-108-133 | PINK | 245 | 157 | M | N/A | N/A | | |
| HS9735-032-108-134 | PINK | 245 | 157 | F | N/A | N/A | | |
| HS9735-032-108-135 | PINK | 246 | 145 | F | N/A | N/A | | |
| HS9735-032-108-136 | PINK | 228 | 136 | M | N/A | N/A | | |
| HS9735-032-108-137 | PINK | 217 | 103 | M | N/A | N/A | | |
| HS9735-032-108-138 | PINK | 232 | 121 | M | N/A | N/A | | |
| HS9735-032-108-139 | PINK | 244 | 131 | M | N/A | N/A | | |
| HS9735-032-108-140 | PINK | 231 | 123 | F | N/A | N/A | | |
| HS9735-032-108-141 | PINK | 233 | 144 | M | N/A | N/A | | |
| HS9735-032-108-142 | PINK | 237 | 149 | F | N/A | N/A | | |
| HS9735-032-108-143 | PINK | 224 | 116 | F | N/A | N/A | | |
| HS9735-032-108-144 | PINK | 242 | 158 | F | N/A | N/A | | |
| HS9735-032-108-145 | PINK | 271 | 208 | M | N/A | N/A | | |
| HS9735-032-108-146 | PINK | 265 | 205 | M | N/A | N/A | | |
| HS9735-032-108-147 | PINK | 244 | 154 | F | N/A | N/A | | |
| HS9735-032-108-148 | PINK | 224 | 107 | M | N/A | N/A | | |
| HS9735-032-108-149 | PINK | 239 | 139 | F | N/A | N/A | | |
| HS9735-032-108-150 | PINK | 240 | 143 | M | N/A | N/A | | G96-PINK |
| HS9735-032-108-151 | PINK | 243 | 139 | F | N/A | N/A | | |
| HS9735-032-108-152 | PINK | 243 | 150 | M | N/A | N/A | | |
| HS9735-032-108-153 | PINK | 240 | 136 | F | N/A | N/A | | |
| HS9735-032-108-154 | PINK | 235 | 150 | F | N/A | N/A | | |
| HS9735-032-108-155 | PINK | 252 | 187 | F | N/A | N/A | | |
| HS9735-032-108-156 | PINK | 253 | 182 | M | N/A | N/A | | |
| HS9735-032-108-157 | PINK | 248 | 157 | M | N/A | N/A | | AFK96LATE-PINK |
| HS9735-032-108-158 | PINK | 279 | 213 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-159 | PINK | 254 | 160 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-160 | PINK | 248 | 150 | F | N/A | N/A | | |
| HS9735-032-108-161 | PINK | 271 | 195 | F | N/A | N/A | | |
| HS9735-032-108-162 | PINK | 245 | 154 | M | N/A | N/A | | |
| HS9735-032-108-163 | PINK | 223 | 119 | F | N/A | N/A | | |
| HS9735-032-108-164 | PINK | 275 | 211 | M | N/A | N/A | | |
| HS9735-032-108-165 | PINK | 228 | 120 | M | N/A | N/A | | |
| HS9735-032-108-166 | PINK | 235 | 134 | M | N/A | N/A | | |
| HS9735-032-108-167 | PINK | 245 | 168 | F | N/A | N/A | | |
| HS9735-032-108-168 | PINK | 232 | 129 | F | N/A | N/A | | |
| HS9735-032-108-169 | PINK | 259 | 202 | F | N/A | N/A | | |
| HS9735-032-108-170 | PINK | 257 | 177 | M | N/A | N/A | | |
| HS9735-032-108-171 | PINK | 250 | 157 | M | N/A | N/A | | |
| HS9735-032-108-172 | PINK | 256 | 176 | M | N/A | N/A | | |
| HS9735-032-108-173 | PINK | 238 | 144 | M | N/A | N/A | | |
| HS9735-032-108-174 | PINK | 254 | 172 | F | N/A | N/A | | |
| HS9735-032-108-175 | PINK | 226 | 119 | M | N/A | N/A | | |
| HS9735-032-108-176 | PINK | 276 | 209 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-177 | PINK | 252 | 162 | M | N/A | N/A | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-032-108-178 | PINK | 222 | 114 | M | N/A | N/A | | |
| HS9735-032-108-179 | PINK | 231 | 124 | F | N/A | N/A | | |
| HS9735-032-108-180 | PINK | 230 | 124 | F | N/A | N/A | | |
| HS9735-032-108-181 | PINK | 224 | 102 | F | N/A | N/A | | |
| HS9735-032-108-182 | PINK | 235 | 158 | F | N/A | N/A | | |
| HS9735-032-108-183 | PINK | 227 | 114 | F | N/A | N/A | | |
| HS9735-032-108-184 | PINK | 258 | 175 | M | N/A | N/A | | |
| HS9735-032-108-185 | PINK | 257 | 186 | M | N/A | N/A | | |
| HS9735-032-108-186 | PINK | 257 | 187 | F | N/A | N/A | | |
| HS9735-032-108-187 | PINK | 244 | 164 | M | N/A | N/A | | |
| HS9735-032-108-188 | PINK | 240 | 138 | M | N/A | N/A | | |
| HS9735-032-108-189 | PINK | 250 | 171 | M | N/A | N/A | | |
| HS9735-032-108-190 | PINK | 242 | 146 | F | N/A | N/A | | |
| HS9735-032-108-191 | PINK | 240 | 155 | M | N/A | N/A | | |
| HS9735-032-108-192 | PINK | 260 | 166 | F | N/A | N/A | | SG96-PINK |
| HS9735-032-108-193 | PINK | 228 | 111 | F | N/A | N/A | | |
| HS9735-032-108-194 | PINK | 246 | 145 | M | N/A | N/A | | |
| HS9735-032-108-195 | PINK | 261 | 179 | M | N/A | N/A | | |
| HS9735-032-108-196 | PINK | 241 | 146 | F | N/A | N/A | | |
| HS9735-032-108-197 | PINK | 240 | 132 | F | N/A | N/A | | AFK96LATE-PINK |
| HS9735-032-108-198 | PINK | 227 | 125 | F | N/A | N/A | | |
| HS9735-032-108-199 | PINK | 241 | 134 | F | N/A | N/A | | |
| HS9735-032-108-200 | PINK | 245 | 144 | F | N/A | N/A | | |
| HS9735-032-108-201 | PINK | 248 | 156 | M | N/A | N/A | | |
| HS9735-032-108-202 | PINK | 246 | 143 | M | N/A | N/A | | |
| HS9735-032-108-203 | PINK | 279 | 225 | F | N/A | N/A | | |
| HS9735-032-108-204 | PINK | 254 | 175 | M | N/A | N/A | | |
| HS9735-032-108-205 | PINK | 246 | 144 | M | N/A | N/A | | G96-PINK |
| HS9735-032-108-206 | PINK | 225 | 108 | M | N/A | N/A | | |
| HS9735-032-108-207 | PINK | 246 | 140 | F | N/A | N/A | | |
| HS9735-032-108-208 | PINK | 233 | 137 | F | N/A | N/A | | |
| HS9735-032-108-209 | PINK | 241 | 159 | F | N/A | N/A | | |
| HS9735-032-108-210 | PINK | 233 | 127 | F | N/A | N/A | | CC96-PINK |
| HS9735-032-108-211 | PINK | 252 | 171 | F | N/A | N/A | | |
| HS9735-032-108-212 | PINK | 256 | 164 | F | N/A | N/A | | |
| HS9735-032-108-213 | PINK | 244 | 143 | M | N/A | N/A | | |
| HS9735-032-108-214 | PINK | 245 | 143 | M | N/A | N/A | | |
| HS9735-032-108-215 | PINK | 258 | 171 | F | N/A | N/A | | WHN96EARLY-PINK |
| HS9735-032-108-216 | PINK | 231 | 130 | F | N/A | N/A | | |
| HS9735-032-108-217 | PINK | 237 | 140 | F | N/A | N/A | | |
| HS9735-032-108-218 | PINK | 240 | 138 | M | N/A | N/A | | |
| HS9735-032-108-219 | PINK | 262 | 196 | F | N/A | N/A | | CC96-PINK |
| HS9735-032-108-220 | PINK | 260 | 185 | F | N/A | N/A | | |
| HS9735-032-108-221 | PINK | 262 | 189 | F | N/A | N/A | | |
| HS9735-033-108-001 | PINK | 226 | 112 | N/A | 0.00 | 79.51 | | AFK96EARLY-PINK |
| HS9735-033-108-002 | PINK | 260 | 158 | N/A | 0.00 | 78.76 | | |
| HS9735-033-108-003 | PINK | 235 | 128 | N/A | 0.00 | 77.52 | | |
| HS9735-033-108-004 | PINK | 282 | 226 | F | 0.30 | 74.14 | | |
| HS9735-033-108-005 | PINK | 230 | 127 | M | 0.00 | 74.28 | | |
| HS9735-033-108-006 | PINK | 232 | 121 | F | 0.00 | 78.06 | | |
| HS9735-033-108-007 | PINK | 212 | 90 | F | 0.00 | 79.23 | | |
| HS9735-034-108-001 | PINK | 244 | 144 | F | N/A | N/A | | |
| HS9735-034-108-002 | PINK | 243 | 143 | M | N/A | N/A | | |
| HS9735-034-108-003 | PINK | 250 | 156 | M | N/A | N/A | | |
| HS9735-034-108-004 | PINK | 246 | 144 | M | N/A | N/A | | |
| HS9735-034-108-005 | PINK | 239 | 128 | M | N/A | N/A | | |
| HS9735-034-108-006 | PINK | 240 | 145 | F | N/A | N/A | | |
| HS9735-034-108-007 | PINK | 235 | 121 | F | N/A | N/A | | |
| HS9735-034-108-008 | PINK | 233 | 115 | M | N/A | N/A | | |
| HS9735-034-108-009 | PINK | 238 | 129 | F | N/A | N/A | | |
| HS9735-034-108-010 | PINK | 240 | 133 | F | N/A | N/A | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-034-108-011 | PINK | 235 | 129 | M | N/A | N/A | | |
| HS9735-034-108-012 | PINK | 230 | 109 | F | N/A | N/A | | |
| HS9735-034-108-013 | PINK | 270 | 210 | F | N/A | N/A | | |
| HS9735-034-108-014 | PINK | 247 | 135 | M | N/A | N/A | | |
| HS9735-034-108-015 | PINK | 252 | 155 | M | N/A | N/A | | |
| HS9735-034-108-016 | PINK | 234 | 126 | F | N/A | N/A | | |
| HS9735-034-108-017 | PINK | 246 | 129 | M | N/A | N/A | | |
| HS9735-034-108-018 | PINK | 221 | 112 | M | N/A | N/A | | |
| HS9735-034-108-019 | PINK | 226 | 104 | M | N/A | N/A | | |
| HS9735-034-108-020 | PINK | 232 | 124 | F | N/A | N/A | | |
| HS9735-034-108-021 | PINK | 247 | 161 | M | N/A | N/A | | |
| HS9735-034-108-022 | PINK | 255 | 128 | M | N/A | N/A | | |
| HS9735-034-108-023 | PINK | 242 | 125 | F | N/A | N/A | | AFK96LATE-PINK |
| HS9735-034-108-024 | PINK | 237 | 112 | M | N/A | N/A | | |
| HS9735-034-108-025 | PINK | 228 | 113 | F | N/A | N/A | | |
| HS9735-034-108-026 | PINK | 230 | 148 | M | N/A | N/A | | |
| HS9735-034-108-027 | PINK | 250 | 173 | F | N/A | N/A | | |
| HS9735-034-108-028 | PINK | 260 | 140 | F | N/A | N/A | | |
| HS9735-034-108-029 | PINK | 245 | 149 | M | N/A | N/A | | |
| HS9735-034-108-030 | PINK | 245 | 155 | F | N/A | N/A | | |
| HS9735-034-108-031 | PINK | 243 | 131 | M | N/A | N/A | | |
| HS9735-034-108-032 | PINK | 255 | 148 | M | N/A | N/A | | |
| HS9735-034-108-033 | PINK | 234 | 111 | M | N/A | N/A | | |
| HS9735-034-108-034 | PINK | 223 | 103 | F | N/A | N/A | | |
| HS9735-034-108-035 | PINK | 215 | 96 | M | N/A | N/A | | |
| HS9735-034-108-036 | PINK | 257 | 162 | F | N/A | N/A | | CC96-PINK |
| HS9735-034-108-037 | PINK | 273 | 210 | M | N/A | N/A | | |
| HS9735-034-108-038 | PINK | 290 | 248 | M | N/A | N/A | | |
| HS9735-034-108-039 | PINK | 239 | 126 | M | N/A | N/A | | |
| HS9735-034-108-040 | PINK | 252 | 156 | M | N/A | N/A | | AFK96LATE-PINK |
| HS9735-035-108-001 | PINK | 237 | 117 | F | 0.00 | 79.84 | | WHN96EARLY-PINK |
| HS9735-035-108-002 | PINK | 227 | 106 | F | 0.19 | 78.65 | | AFK96LATE-PINK |
| HS9735-035-108-003 | PINK | 233 | 120 | F | 0.47 | 77.96 | | CC96-PINK |
| HS9735-035-108-004 | PINK | 237 | 156 | M | 0.03 | 78.11 | | AFK96LATE-PINK |
| HS9735-035-108-005 | PINK | 245 | 152 | F | 0.00 | 76.47 | | |
| HS9735-035-108-006 | PINK | 253 | 155 | M | 7.46 | 79.26 | | |
| HS9735-035-108-007 | PINK | 258 | 176 | M | 4.44 | 75.63 | | |
| HS9735-035-108-008 | PINK | 261 | 173 | M | 0.20 | 79.32 | | |
| HS9735-035-108-009 | PINK | 250 | 146 | F | 0.82 | 78.90 | | WHN96EARLY-PINK |
| HS9735-035-108-010 | PINK | 240 | 130 | F | 0.66 | 77.34 | | |
| HS9735-035-108-011 | PINK | 238 | 139 | F | 0.53 | 78.54 | | |
| HS9735-035-108-012 | PINK | 241 | 135 | F | 1.80 | 77.82 | | |
| HS9735-035-108-013 | PINK | 222 | 104 | M | 0.70 | 78.55 | | |
| HS9735-035-108-014 | PINK | 242 | 131 | F | 0.40 | 77.43 | | |
| HS9735-035-108-015 | PINK | 227 | 119 | F | 1.13 | 75.48 | | |
| HS9735-035-108-016 | PINK | 233 | 119 | F | 0.27 | 79.04 | | |
| HS9735-035-108-017 | PINK | 237 | 144 | M | 0.34 | 77.57 | | |
| HS9735-035-108-018 | PINK | 240 | 139 | M | 0.00 | 75.65 | | CC96-PINK |
| HS9735-035-108-019 | PINK | 263 | 198 | F | 0.00 | 74.81 | | |
| HS9735-035-108-020 | PINK | 219 | 101 | M | 0.00 | 79.38 | | |
| HS9735-035-108-021 | PINK | 249 | 161 | M | 0.00 | 76.80 | | |
| HS9735-035-108-022 | PINK | 262 | 207 | F | 0.00 | 73.04 | | |
| HS9735-035-108-023 | PINK | 267 | 193 | F | 0.48 | 77.33 | | SG96-PINK |
| HS9735-035-108-024 | PINK | 261 | 186 | F | 0.00 | 75.51 | | SG96-PINK |
| HS9735-035-108-025 | PINK | 251 | 168 | M | 0.19 | 78.98 | | WHN96EARLY-PINK |
| HS9735-035-108-026 | PINK | 246 | 142 | M | 0.30 | 79.70 | | |
| HS9735-035-108-027 | PINK | 234 | 143 | M | 3.94 | 76.66 | | |
| HS9735-035-108-028 | PINK | 243 | 144 | F | 0.05 | 78.52 | | |
| HS9735-035-108-029 | PINK | 214 | 94 | M | 0.09 | 79.32 | | |
| HS9735-035-108-030 | PINK | 225 | 107 | F | 0.00 | 78.96 | | |
| HS9735-035-108-031 | PINK | 261 | 173 | F | N/A | N/A | | SG96-PINK |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-035-108-032 | PINK | 256 | 169 | M | N/A | N/A | | |
| HS9735-035-108-033 | PINK | 235 | 135 | M | N/A | N/A | | |
| HS9735-035-108-034 | PINK | 265 | 168 | M | N/A | N/A | | |
| HS9735-035-108-035 | PINK | 237 | 140 | F | N/A | N/A | | |
| HS9735-035-108-036 | PINK | 244 | 150 | F | N/A | N/A | | |
| HS9735-035-108-037 | PINK | 245 | 158 | M | N/A | N/A | | |
| HS9735-035-108-038 | PINK | 242 | 148 | F | N/A | N/A | | |
| HS9735-035-108-039 | PINK | 234 | 138 | F | N/A | N/A | | CC96-PINK |
| HS9735-035-108-040 | PINK | 231 | 120 | M | N/A | N/A | | |
| HS9735-036-108-001 | PINK | 238 | 141 | F | N/A | N/A | | |
| HS9735-036-108-002 | PINK | 228 | 118 | M | N/A | N/A | | |
| HS9735-036-108-003 | PINK | 234 | 120 | M | N/A | N/A | | |
| HS9735-036-108-004 | PINK | 221 | 98 | M | N/A | N/A | | |
| HS9735-036-108-005 | PINK | 233 | 121 | F | N/A | N/A | | |
| HS9735-036-108-006 | PINK | 245 | 133 | M | N/A | N/A | | |
| HS9735-036-108-007 | PINK | 223 | 100 | F | N/A | N/A | | |
| HS9735-036-108-008 | PINK | 238 | 121 | F | N/A | N/A | | |
| HS9735-036-108-009 | PINK | 234 | 125 | M | N/A | N/A | | |
| HS9735-036-108-010 | PINK | 257 | 169 | F | N/A | N/A | | |
| HS9735-036-108-011 | PINK | 232 | 107 | M | 0.24 | 78.61 | | |
| HS9735-036-108-012 | PINK | 228 | 115 | F | 0.50 | 77.82 | | |
| HS9735-036-108-013 | PINK | 220 | 98 | F | 0.07 | 78.19 | | |
| HS9735-036-108-014 | PINK | 226 | 118 | F | 1.01 | 79.68 | | |
| HS9735-036-108-015 | PINK | 235 | 125 | F | 0.17 | 77.35 | | |
| HS9735-036-108-016 | PINK | 235 | 121 | M | 0.41 | 79.43 | | |
| HS9735-036-108-017 | PINK | 221 | 93 | M | 0.15 | 79.34 | | |
| HS9735-036-108-018 | PINK | 230 | 116 | M | 0.62 | 78.52 | | |
| HS9735-036-108-019 | PINK | 226 | 108 | F | 0.35 | 78.25 | | |
| HS9735-036-108-020 | PINK | 246 | 160 | M | 1.38 | 78.51 | | |
| HS9735-036-108-021 | PINK | 230 | 115 | F | 0.45 | 77.79 | | |
| HS9735-036-108-022 | PINK | 232 | 119 | F | 1.41 | 79.05 | | |
| HS9735-036-108-023 | PINK | 238 | 119 | M | 0.23 | 79.34 | | |
| HS9735-036-108-024 | PINK | 224 | 104 | F | 0.54 | 78.23 | | |
| HS9735-036-108-025 | PINK | 240 | 141 | F | 0.70 | 76.59 | | |
| HS9735-036-108-026 | PINK | 250 | 134 | M | 0.79 | 79.49 | | |
| HS9735-036-108-027 | PINK | 234 | 117 | F | 0.37 | 79.19 | | |
| HS9735-036-108-028 | PINK | 227 | 115 | M | 0.07 | 78.36 | | AFK96LATE-PINK |
| HS9735-036-108-029 | PINK | 238 | 135 | M | 1.69 | 76.75 | | |
| HS9735-036-108-030 | PINK | 226 | 110 | M | N/A | N/A | | |
| HS9735-036-108-031 | PINK | 250 | 161 | M | N/A | N/A | | |
| HS9735-036-108-032 | PINK | 215 | 105 | M | N/A | N/A | | |
| HS9735-036-108-033 | PINK | 225 | 119 | M | N/A | N/A | | |
| HS9735-036-108-034 | PINK | 229 | 122 | M | N/A | N/A | | |
| HS9735-036-108-035 | PINK | 243 | 143 | F | N/A | N/A | | |
| HS9735-036-108-036 | PINK | 245 | 156 | F | N/A | N/A | | |
| HS9735-036-108-037 | PINK | 240 | 158 | M | N/A | N/A | | |
| HS9735-036-108-038 | PINK | 223 | 109 | F | N/A | N/A | | |
| HS9735-036-108-039 | PINK | 236 | 137 | F | N/A | N/A | | |
| HS9735-036-108-040 | PINK | 239 | 145 | F | N/A | N/A | | |
| HS9735-036-108-041 | PINK | 232 | 132 | F | N/A | N/A | | |
| HS9735-036-108-042 | PINK | 245 | 152 | F | N/A | N/A | | |
| HS9735-036-108-043 | PINK | 224 | 121 | M | N/A | N/A | | |
| HS9735-036-108-044 | PINK | 241 | 147 | F | N/A | N/A | | |
| HS9735-036-108-045 | PINK | 227 | 127 | F | N/A | N/A | | |
| HS9735-036-108-046 | PINK | 230 | 122 | F | N/A | N/A | | |
| HS9735-036-108-047 | PINK | 238 | 138 | F | N/A | N/A | | |
| HS9735-036-108-048 | PINK | 230 | 125 | F | N/A | N/A | | |
| HS9735-036-108-049 | PINK | 238 | 158 | M | N/A | N/A | | AFK96LATE-PINK |
| HS9735-036-108-050 | PINK | 227 | 124 | M | N/A | N/A | | |
| HS9735-036-108-051 | PINK | 234 | 142 | F | N/A | N/A | | |
| HS9735-036-108-052 | PINK | 213 | 107 | F | N/A | N/A | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-036-108-053 | PINK | 231 | 128 | F | N/A | N/A | | CC96-PINK |
| HS9735-036-108-054 | PINK | 239 | 164 | F | N/A | N/A | | |
| HS9735-036-108-055 | PINK | 194 | 67 | F | N/A | N/A | | |
| HS9735-037-108-001 | PINK | 258 | 183 | M | N/A | N/A | | |
| HS9735-037-108-002 | PINK | 237 | 126 | M | N/A | N/A | | |
| HS9735-037-108-003 | PINK | 242 | 128 | M | N/A | N/A | | |
| HS9735-037-108-004 | PINK | 232 | 127 | F | N/A | N/A | | |
| HS9735-037-108-005 | PINK | 257 | 173 | M | N/A | N/A | | |
| HS9735-037-108-006 | PINK | 236 | 140 | F | N/A | N/A | | |
| HS9735-037-108-007 | PINK | 285 | 226 | M | N/A | N/A | | |
| HS9735-037-108-008 | PINK | 227 | 108 | M | N/A | N/A | | |
| HS9735-037-108-009 | PINK | 244 | 135 | F | N/A | N/A | | |
| HS9735-037-108-010 | PINK | 257 | 150 | F | N/A | N/A | | |
| HS9735-037-108-011 | PINK | 235 | 118 | F | N/A | N/A | | |
| HS9735-037-108-012 | PINK | 240 | 141 | F | N/A | N/A | | |
| HS9735-037-108-013 | PINK | 240 | 143 | M | N/A | N/A | | |
| HS9735-037-108-014 | PINK | 255 | 150 | M | N/A | N/A | | |
| HS9735-037-108-015 | PINK | 245 | 148 | F | N/A | N/A | | |
| HS9735-037-108-016 | PINK | 235 | 132 | F | N/A | N/A | | |
| HS9735-037-108-017 | PINK | 240 | 138 | M | N/A | N/A | | |
| HS9735-037-108-018 | PINK | 247 | 146 | F | N/A | N/A | | |
| HS9735-037-108-019 | PINK | 243 | 135 | M | N/A | N/A | | |
| HS9735-037-108-020 | PINK | 233 | 115 | M | N/A | N/A | | |
| HS9735-037-108-021 | PINK | 235 | 123 | M | N/A | N/A | | |
| HS9735-037-108-022 | PINK | 228 | 106 | F | N/A | N/A | | |
| HS9735-037-108-023 | PINK | 233 | 119 | F | N/A | N/A | | |
| HS9735-037-108-024 | PINK | 220 | 108 | M | N/A | N/A | | |
| HS9735-045-108-001 | PINK | 255 | 164 | N/A | 0.73 | 75.06 | | |
| HS9735-045-108-002 | PINK | 247 | 147 | N/A | 0.53 | 76.59 | | |
| HS9735-045-108-003 | PINK | 256 | 154 | N/A | 0.68 | 77.97 | | |
| HS9735-045-108-004 | PINK | 260 | 169 | N/A | 0.46 | 76.74 | | |
| HS9735-045-108-005 | PINK | 273 | 189 | N/A | 0.69 | 77.83 | | |
| HS9735-045-108-006 | PINK | 245 | 134 | N/A | 0.32 | 78.21 | | WHN96EARLY-PINK |
| HS9735-045-108-007 | PINK | 251 | 125 | N/A | 0.34 | 74.61 | | |
| HS9735-045-108-008 | PINK | 230 | 119 | N/A | 0.62 | 75.11 | | |
| HS9735-045-108-009 | PINK | 281 | 213 | N/A | 0.66 | 75.00 | | WHN96EARLY-PINK |
| HS9735-046-108-001 | PINK | 270 | 181 | M | 0.15 | 76.01 | | |
| HS9735-046-108-002 | PINK | 256 | 176 | F | 0.00 | 73.06 | | |
| HS9735-046-108-003 | PINK | 279 | 221 | M | 0.22 | 72.97 | | |
| HS9735-046-108-004 | PINK | 264 | 184 | M | 0.75 | 74.05 | | |
| HS9735-046-108-005 | PINK | 252 | 165 | F | 0.00 | 74.95 | | |
| HS9735-046-108-006 | PINK | 264 | 172 | F | 0.42 | 74.51 | | SG96-PINK |
| HS9735-046-108-007 | PINK | 250 | 157 | M | 0.35 | 75.62 | | AFK96LATE-PINK |
| HS9735-046-108-008 | PINK | 318 | 321 | M | 4.11 | 74.21 | | |
| HS9735-046-108-009 | PINK | 286 | 233 | F | 0.44 | 73.10 | | |
| HS9735-046-108-010 | PINK | 301 | 272 | M | 9.98 | 73.92 | | SG96-PINK |
| HS9735-046-108-011 | PINK | 286 | 234 | M | 2.19 | 72.54 | | WHN96EARLY-PINK |
| HS9735-046-108-012 | PINK | 252 | 158 | M | 0.47 | 74.00 | | |
| HS9735-046-108-013 | PINK | 292 | 245 | F | 0.55 | 71.27 | | |
| HS9735-046-108-014 | PINK | 296 | 248 | F | 0.47 | 73.36 | | WHN96EARLY-PINK |
| HS9735-046-108-015 | PINK | 266 | 185 | F | 0.53 | 75.22 | | |
| HS9735-046-108-016 | PINK | 257 | 157 | F | 0.00 | 74.46 | | |
| HS9735-046-108-017 | PINK | 265 | 196 | F | 1.40 | 75.79 | | SG96-PINK |
| HS9735-046-108-018 | PINK | 283 | 216 | F | 0.00 | 75.94 | | |
| HS9735-046-108-019 | PINK | 282 | 234 | M | 0.00 | 72.69 | | AFK96LATE-PINK |
| HS9735-046-108-020 | PINK | 296 | 273 | M | 9.72 | 77.31 | | |
| HS9735-046-108-021 | PINK | 246 | 175 | F | 0.52 | 72.90 | | |
| HS9735-046-108-022 | PINK | 260 | 181 | F | 0.00 | 75.21 | | |
| HS9735-046-108-023 | PINK | 220 | 124 | F | 0.42 | 75.08 | | |
| HS9735-046-108-024 | PINK | 264 | 177 | F | 0.06 | 75.02 | | |
| HS9735-046-108-025 | PINK | 250 | 167 | M | 0.16 | 76.36 | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-046-108-026 | PINK | 233 | 134 | F | 0.18 | 77.32 | | |
| HS9735-046-108-027 | PINK | 224 | 119 | F | 0.06 | 77.64 | | CC96-PINK |
| HS9735-046-108-028 | PINK | 245 | 156 | F | 0.40 | 76.68 | | AFK96EARLY-PINK |
| HS9735-046-108-029 | PINK | 253 | 178 | M | 0.26 | 76.47 | | |
| HS9735-046-108-030 | PINK | 205 | 97 | F | 1.08 | 75.80 | | |
| HS9735-046-108-031 | PINK | 255 | 184 | F | 2.35 | 74.12 | | |
| HS9735-046-108-032 | PINK | 224 | 111 | F | 0.21 | 77.00 | | |
| HS9735-046-108-033 | PINK | 246 | 158 | F | 0.10 | 75.33 | | |
| HS9735-046-108-034 | PINK | 242 | 146 | F | 1.56 | 77.00 | | |
| HS9735-046-108-035 | PINK | 249 | 184 | F | 5.34 | 73.19 | | |
| HS9735-046-108-036 | PINK | 234 | 136 | M | 0.18 | 78.07 | | |
| HS9735-046-108-037 | PINK | 237 | 152 | F | 0.00 | 76.22 | | |
| HS9735-047-108-001 | PINK | 238 | 130 | M | 3.53 | 77.23 | | |
| HS9735-047-108-002 | PINK | 253 | 157 | M | 3.07 | 74.98 | | |
| HS9735-047-108-003 | PINK | 272 | 197 | M | 1.71 | 75.28 | | SG96-PINK |
| HS9735-047-108-004 | PINK | 239 | 135 | M | 5.24 | 75.56 | | |
| HS9735-047-108-005 | PINK | 222 | 115 | M | 1.04 | 75.52 | | |
| HS9735-047-108-006 | PINK | 235 | 129 | M | 3.87 | 78.14 | | |
| HS9735-047-108-007 | PINK | 283 | 217 | M | 0.14 | 73.47 | | SG96-PINK |
| HS9735-047-108-008 | PINK | 225 | 106 | F | 0.09 | 77.94 | | |
| HS9735-047-108-009 | PINK | 262 | 175 | F | 0.33 | 73.28 | | CC96-PINK |
| HS9735-047-108-010 | PINK | 240 | 130 | F | 1.99 | 75.38 | | |
| HS9735-047-108-011 | PINK | 249 | 142 | M | 0.92 | 76.84 | | CC96-PINK |
| HS9735-047-108-012 | PINK | 228 | 116 | M | 0.22 | 77.55 | | |
| HS9735-047-108-013 | PINK | 250 | 149 | F | 2.72 | 75.93 | | |
| HS9735-047-108-014 | PINK | 230 | 117 | F | 0.25 | 75.26 | | |
| HS9735-047-108-015 | PINK | 264 | 198 | F | 0.00 | 74.19 | | |
| HS9735-047-108-016 | PINK | 235 | 118 | F | 0.17 | 77.02 | | |
| HS9735-048-108-001 | PINK | 229 | 107 | F | 2.49 | 77.49 | | |
| HS9735-048-108-002 | PINK | 263 | 157 | M | 3.76 | 76.62 | | |
| HS9735-048-108-003 | PINK | 261 | 185 | F | 5.85 | 74.71 | | |
| HS9735-048-108-004 | PINK | 253 | 157 | M | 4.55 | 76.40 | | |
| HS9735-048-108-005 | PINK | 303 | 279 | M | 17.14 | 73.76 | | SG96-PINK |
| HS9735-048-108-006 | PINK | 243 | 128 | M | 6.78 | 78.18 | | |
| HS9735-048-108-007 | PINK | 227 | 112 | M | 4.73 | 78.10 | | CC96-PINK |
| HS9735-049-108-001 | PINK | 237 | 133 | M | 0.61 | 75.60 | | |
| HS9735-049-108-002 | PINK | 255 | 167 | F | 12.26 | 79.12 | | WHN96LATE-PINK |
| HS9735-049-108-003 | PINK | 250 | 147 | M | 3.24 | 77.57 | | |
| HS9735-049-108-004 | PINK | 231 | 118 | F | 3.36 | 77.92 | | |
| HS9735-049-108-005 | PINK | 203 | 75 | M | 0.92 | 75.53 | | |
| HS9735-050-108-001 | PINK | 260 | 175 | F | 2.33 | 74.85 | | |
| HS9735-051-108-001 | PINK | 260 | 162 | F | 1.45 | 75.83 | | CC96-PINK |
| HS9735-056-108-001 | PINK | 243 | 132 | M | 0.44 | 74.93 | | |
| HS9735-057-108-001 | PINK | 238 | 133 | F | 2.36 | 75.14 | | |
| HS9735-057-108-002 | PINK | 227 | 117 | F | 3.13 | 77.60 | | |
| HS9735-057-108-003 | PINK | 243 | 137 | M | 0.06 | 75.24 | | |
| HS9735-057-108-004 | PINK | 257 | 171 | M | 7.43 | 75.48 | | CC96-PINK |
| HS9735-057-108-005 | PINK | 265 | 178 | F | 2.00 | 75.41 | | |
| HS9735-057-108-006 | PINK | 224 | 118 | M | 0.94 | 74.57 | | |
| HS9735-057-108-007 | PINK | 238 | 135 | F | 0.30 | 76.11 | | |
| HS9735-057-108-008 | PINK | 245 | 152 | M | 5.18 | 75.59 | | |
| HS9735-057-108-009 | PINK | 240 | 137 | F | 1.49 | 75.29 | | |
| HS9735-057-108-010 | PINK | 263 | 180 | M | 0.39 | 76.04 | | |
| HS9735-057-108-011 | PINK | 265 | 167 | M | 0.47 | 76.68 | | AFK96LATE-PINK |
| HS9735-057-108-012 | PINK | 250 | 162 | M | 3.98 | 75.21 | | |
| HS9735-057-108-013 | PINK | 257 | 171 | M | 1.77 | 74.87 | | |
| HS9735-057-108-014 | PINK | 232 | 106 | F | 0.49 | 78.23 | | AFK96EARLY-PINK |
| HS9735-057-108-015 | PINK | 263 | 176 | M | 0.66 | 74.79 | | |
| HS9735-057-108-016 | PINK | 265 | 203 | M | 0.99 | 74.22 | | |
| HS9735-057-108-017 | PINK | 250 | 151 | M | 1.35 | 77.51 | | |
| HS9735-057-108-018 | PINK | 262 | 169 | F | 0.22 | 74.11 | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-060-108-001 | PINK | 278 | 221 | F | 1.42 | 73.35 | | WHN96EARLY-PINK |
| HS9735-060-108-002 | PINK | 267 | 172 | M | 0.32 | 76.31 | | AFK96LATE-PINK |
| HS9735-061-108-001 | PINK | 285 | 224 | F | 0.00 | 73.00 | | WHN96LATE-PINK |
| HS9735-061-108-002 | PINK | 266 | 175 | M | 0.00 | 73.41 | | |
| HS9735-061-108-003 | PINK | 278 | 219 | M | 0.00 | 73.52 | | |
| HS9735-061-108-004 | PINK | 263 | 170 | F | 0.00 | 71.82 | | |
| HS9735-061-108-005 | PINK | 270 | 181 | M | 0.00 | 74.15 | | |
| HS9735-061-108-006 | PINK | 273 | 187 | M | 0.00 | 76.64 | | |
| HS9735-061-108-007 | PINK | 260 | 163 | F | 0.00 | 74.91 | | |
| HS9735-061-108-008 | PINK | 266 | 187 | F | N/A | N/A | | |
| HS9735-061-108-009 | PINK | 267 | 172 | F | N/A | N/A | | AFK96LATE-PINK |
| HS9735-061-108-010 | PINK | 279 | 179 | F | 0.00 | 76.54 | | |
| HS9735-061-108-011 | PINK | 275 | 197 | F | N/A | N/A | | |
| HS9735-061-108-012 | PINK | 282 | 194 | M | 0.00 | 76.26 | | CC96-PINK |
| HS9735-061-108-013 | PINK | 246 | 134 | M | N/A | N/A | | |
| HS9735-061-108-014 | PINK | 271 | 197 | F | 0.00 | 75.06 | | AFK96LATE-PINK |
| HS9735-061-108-015 | PINK | 271 | 192 | F | 0.00 | 74.26 | | SG96-PINK |
| HS9735-061-108-016 | PINK | 242 | 140 | F | 0.00 | 75.77 | | |
| HS9735-061-108-017 | PINK | 268 | 178 | M | 0.00 | 72.58 | | |
| HS9735-061-108-018 | PINK | 247 | 141 | M | 0.00 | 75.11 | | CC96-PINK |
| HS9735-061-108-019 | PINK | 257 | 150 | F | 0.00 | 75.18 | | |
| HS9735-061-108-020 | PINK | 246 | 147 | M | 0.00 | 73.84 | | |
| HS9735-061-108-021 | PINK | 256 | 148 | F | 0.00 | 74.62 | | |
| HS9735-061-108-022 | PINK | 277 | 200 | M | 0.00 | 74.32 | | SG96-PINK |
| HS9735-061-108-023 | PINK | 261 | 156 | M | 0.00 | 76.36 | | |
| HS9735-061-108-024 | PINK | 247 | 152 | M | 0.00 | 73.23 | | |
| HS9735-061-108-025 | PINK | 232 | 117 | M | N/A | N/A | | |
| HS9735-061-108-026 | PINK | 251 | 140 | F | 0.05 | 75.58 | | |
| HS9735-061-108-027 | PINK | 263 | 168 | F | 0.00 | 75.71 | | AFK96LATE-PINK |
| HS9735-061-108-028 | PINK | 248 | 159 | F | 0.00 | 73.14 | | |
| HS9735-061-108-029 | PINK | 267 | 195 | M | 0.00 | 73.83 | | AFK96LATE-PINK |
| HS9735-061-108-030 | PINK | 260 | 171 | F | 0.00 | 75.86 | | AFK96EARLY-PINK |
| HS9735-062-108-001 | PINK | 284 | 213 | F | 1.01 | 76.30 | | |
| HS9735-062-108-002 | PINK | 271 | 187 | M | 0.72 | 74.56 | | |
| HS9735-062-108-003 | PINK | 283 | 212 | M | 1.29 | 75.07 | | |
| HS9735-062-108-004 | PINK | 261 | 176 | M | 1.28 | 75.35 | | |
| HS9735-062-108-005 | PINK | 258 | 164 | M | 2.31 | 74.55 | | |
| HS9735-062-108-006 | PINK | 256 | 165 | F | 1.05 | 74.41 | | |
| HS9735-062-108-007 | PINK | 272 | 173 | M | 0.77 | 75.85 | | |
| HS9735-062-108-008 | PINK | 252 | 163 | F | 0.99 | 73.56 | | |
| HS9735-062-108-009 | PINK | 275 | 185 | F | 0.85 | 75.79 | | AFK96LATE-PINK |
| HS9735-062-108-010 | PINK | 254 | 145 | F | 0.88 | 74.83 | | |
| HS9735-062-108-011 | PINK | 266 | 193 | F | N/A | N/A | | SG96-PINK |
| HS9735-062-108-012 | PINK | 257 | 156 | M | N/A | N/A | | CC96-PINK |
| HS9735-062-108-013 | PINK | 262 | 195 | M | N/A | N/A | | |
| HS9735-062-108-014 | PINK | 273 | 214 | F | N/A | N/A | | |
| HS9735-062-108-015 | PINK | 259 | 183 | M | N/A | N/A | | AFK96LATE-PINK |
| HS9735-062-108-016 | PINK | 265 | 171 | M | N/A | N/A | | |
| HS9735-062-108-017 | PINK | 241 | 134 | F | N/A | N/A | | |
| HS9735-062-108-018 | PINK | 262 | 155 | M | N/A | N/A | | AFK96LATE-PINK |
| HS9735-062-108-019 | PINK | 261 | 175 | M | N/A | N/A | | |
| HS9735-062-108-020 | PINK | 264 | 157 | M | N/A | N/A | | |
| HS9735-062-108-021 | PINK | 264 | 187 | M | N/A | N/A | | |
| HS9735-062-108-022 | PINK | 274 | 213 | F | N/A | N/A | | |
| HS9735-062-108-023 | PINK | 254 | 173 | M | N/A | N/A | | |
| HS9735-062-108-024 | PINK | 261 | 188 | F | N/A | N/A | | |
| HS9735-062-108-025 | PINK | 253 | 166 | F | N/A | N/A | | |
| HS9735-062-108-026 | PINK | 269 | 173 | M | N/A | N/A | | |
| HS9735-063-108-001 | PINK | 250 | 159 | F | 0.38 | 75.49 | | |
| HS9735-063-108-002 | PINK | 256 | 153 | F | 0.08 | 73.53 | | |
| HS9735-063-108-003 | PINK | 261 | 179 | M | 0.20 | 73.95 | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-063-108-004 | PINK | 272 | 186 | F | 0.31 | 74.78 | | |
| HS9735-063-108-005 | PINK | 255 | 167 | F | 1.10 | 74.39 | | |
| HS9735-063-108-006 | PINK | 286 | 216 | F | 2.38 | 74.07 | | |
| HS9735-063-108-007 | PINK | 272 | 183 | M | 0.19 | 75.91 | | |
| HS9735-063-108-008 | PINK | 250 | 152 | M | 0.15 | 74.27 | | CC96-PINK |
| HS9735-063-108-009 | PINK | 257 | 164 | M | 0.44 | 74.33 | | |
| HS9735-063-108-010 | PINK | 263 | 170 | M | 0.32 | 75.50 | | AFK96LATE-PINK |
| HS9735-063-108-011 | PINK | 257 | 153 | M | 0.31 | 76.61 | | |
| HS9735-063-108-012 | PINK | 269 | 174 | M | 0.19 | 75.38 | | |
| HS9735-063-108-013 | PINK | 272 | 198 | M | 0.41 | 74.07 | | AFK96LATE-PINK |
| HS9735-063-108-014 | PINK | 280 | 238 | F | 7.33 | 71.22 | | |
| HS9735-063-108-015 | PINK | 256 | 164 | F | 5.95 | 75.05 | | |
| HS9735-063-108-016 | PINK | 261 | 190 | F | 0.73 | 73.04 | | |
| HS9735-063-108-017 | PINK | 247 | 145 | M | 0.40 | 72.51 | | |
| HS9735-063-108-018 | PINK | 268 | 186 | F | 0.27 | 74.47 | | |
| HS9735-063-108-019 | PINK | 261 | 157 | M | 0.20 | 76.98 | | |
| HS9735-063-108-020 | PINK | 265 | 167 | M | 0.24 | 75.67 | | |
| HS9735-063-108-021 | PINK | 266 | 181 | F | 0.74 | 72.87 | | WHN96EARLY-PINK |
| HS9735-064-108-001 | PINK | 266 | 178 | M | N/A | N/A | | |
| HS9735-065-108-001 | PINK | 228 | 107 | M | 0.79 | 78.20 | | |
| HS9735-065-108-002 | PINK | 264 | 195 | F | 1.15 | 73.61 | | |
| HS9735-065-108-003 | PINK | 273 | 186 | F | 0.87 | 74.22 | | |
| HS9735-065-108-004 | PINK | 251 | 154 | M | 0.31 | 71.14 | | |
| HS9735-065-108-005 | PINK | 252 | 157 | M | 0.59 | 73.88 | | |
| HS9735-067-108-001 | PINK | 258 | 159 | M | N/A | N/A | | |
| HS9735-068-108-001 | PINK | 246 | 144 | F | 1.77 | 79.32 | | |
| HS9735-068-108-002 | PINK | 250 | 147 | F | 1.16 | 78.46 | | |
| HS9735-068-108-003 | PINK | 255 | 161 | M | 1.50 | 76.56 | | |
| HS9735-068-108-004 | PINK | 258 | 171 | M | N/A | N/A | | |
| HS9735-032-118-001 | SOCKEYE | 262 | 187 | M | N/A | N/A | | |
| HS9735-032-118-002 | SOCKEYE | 247 | 162 | F | N/A | N/A | | |
| HS9735-032-118-003 | SOCKEYE | 240 | 162 | M | N/A | N/A | | |
| HS9735-032-118-004 | SOCKEYE | 236 | 141 | F | N/A | N/A | | |
| HS9735-032-118-005 | SOCKEYE | 237 | 140 | M | N/A | N/A | | |
| HS9735-032-118-006 | SOCKEYE | 236 | 133 | M | N/A | N/A | | |
| HS9735-032-118-007 | SOCKEYE | 275 | 208 | F | N/A | N/A | | |
| HS9735-032-118-008 | SOCKEYE | 252 | 192 | M | N/A | N/A | | |
| HS9735-032-118-009 | SOCKEYE | 262 | 180 | M | N/A | N/A | | |
| HS9735-032-118-010 | SOCKEYE | 241 | 133 | M | N/A | N/A | | |
| HS9735-032-118-011 | SOCKEYE | 250 | 167 | F | 0.00 | 75.68 | | |
| HS9735-032-118-012 | SOCKEYE | 242 | 155 | M | 0.00 | 75.64 | | |
| HS9735-032-118-013 | SOCKEYE | 212 | 93 | M | 0.00 | 75.11 | | |
| HS9735-032-118-014 | SOCKEYE | 245 | 155 | M | 0.00 | 75.60 | | |
| HS9735-032-118-015 | SOCKEYE | 228 | 122 | M | 0.00 | 75.80 | | |
| HS9735-032-118-016 | SOCKEYE | 236 | 136 | F | 0.00 | 73.76 | | |
| HS9735-032-118-017 | SOCKEYE | 247 | 160 | F | 0.00 | 74.68 | | |
| HS9735-032-118-018 | SOCKEYE | 218 | 110 | M | 0.03 | 75.61 | | |
| HS9735-032-118-019 | SOCKEYE | 243 | 155 | M | 0.00 | 74.28 | | |
| HS9735-032-118-020 | SOCKEYE | 245 | 147 | M | 0.00 | 76.23 | | |
| HS9735-032-118-021 | SOCKEYE | 210 | 97 | F | 0.00 | 74.90 | | |
| HS9735-032-118-022 | SOCKEYE | 238 | 135 | F | 0.00 | 74.87 | | |
| HS9735-032-118-023 | SOCKEYE | 236 | 130 | M | 0.00 | 76.53 | | |
| HS9735-032-118-024 | SOCKEYE | 241 | 152 | F | 0.00 | 74.36 | | |
| HS9735-032-118-025 | SOCKEYE | 245 | 155 | M | 7.15 | 74.26 | | |
| HS9735-032-118-026 | SOCKEYE | 248 | 156 | M | 0.09 | 75.90 | | |
| HS9735-032-118-027 | SOCKEYE | 225 | 122 | F | N/A | N/A | | |
| HS9735-032-118-028 | SOCKEYE | 240 | 143 | F | N/A | N/A | | |
| HS9735-032-118-029 | SOCKEYE | 250 | 156 | F | N/A | N/A | | |
| HS9735-032-118-030 | SOCKEYE | 220 | 117 | M | N/A | N/A | | |
| HS9735-032-118-031 | SOCKEYE | 235 | 129 | M | N/A | N/A | | |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-032-118-032 | SOCKEYE | 207 | 91 | F | N/A | N/A | | |
| HS9735-032-118-033 | SOCKEYE | 262 | 204 | M | 0.00 | 73.68 | | |
| HS9735-034-118-001 | SOCKEYE | 245 | 144 | M | 0.00 | 73.94 | | |
| HS9735-034-118-002 | SOCKEYE | 230 | 123 | M | 0.17 | 74.94 | | |
| HS9735-034-118-003 | SOCKEYE | 243 | 140 | M | 0.37 | 74.55 | | |
| HS9735-034-118-004 | SOCKEYE | 260 | 189 | M | 0.60 | 74.23 | | |
| HS9735-034-118-005 | SOCKEYE | 240 | 148 | M | 2.39 | 75.05 | | |
| HS9735-034-118-006 | SOCKEYE | 223 | 123 | F | 0.07 | 74.15 | | |
| HS9735-034-118-007 | SOCKEYE | 246 | 153 | F | 0.37 | 74.41 | | |
| HS9735-034-118-008 | SOCKEYE | 231 | 121 | F | 0.53 | 75.20 | | |
| HS9735-034-118-009 | SOCKEYE | 235 | 128 | F | 0.93 | 73.61 | | S-CK94-SOCK |
| HS9735-034-118-010 | SOCKEYE | 232 | 131 | M | 0.12 | 75.03 | | |
| HS9735-034-118-011 | SOCKEYE | 232 | 124 | F | N/A | N/A | | |
| HS9735-034-118-012 | SOCKEYE | 212 | 98 | M | N/A | N/A | | |
| HS9735-034-118-013 | SOCKEYE | 218 | 103 | F | N/A | N/A | | |
| HS9735-034-118-014 | SOCKEYE | 225 | 122 | F | N/A | N/A | | |
| HS9735-034-118-015 | SOCKEYE | 222 | 106 | F | N/A | N/A | | |
| HS9735-034-118-016 | SOCKEYE | 233 | 121 | M | N/A | N/A | | |
| HS9735-034-118-017 | SOCKEYE | 220 | 107 | M | N/A | N/A | | |
| HS9735-034-118-018 | SOCKEYE | 217 | 106 | M | 0.02 | 75.72 | | |
| HS9735-034-118-019 | SOCKEYE | 234 | 137 | F | 0.00 | 72.95 | | |
| HS9735-034-118-020 | SOCKEYE | 217 | 107 | F | 0.38 | 74.05 | | |
| HS9735-034-118-021 | SOCKEYE | 235 | 140 | F | 0.03 | 74.08 | | |
| HS9735-034-118-022 | SOCKEYE | 207 | 93 | F | 0.33 | 76.87 | | |
| HS9735-034-118-023 | SOCKEYE | 230 | 112 | F | 0.00 | 75.93 | | |
| HS9735-034-118-024 | SOCKEYE | 212 | 91 | F | 0.00 | 75.15 | | |
| HS9735-034-118-025 | SOCKEYE | 233 | 127 | F | 0.26 | 76.38 | | |
| HS9735-034-118-026 | SOCKEYE | 224 | 106 | M | N/A | N/A | | |
| HS9735-034-118-027 | SOCKEYE | 230 | 123 | F | N/A | N/A | | |
| HS9735-034-118-028 | SOCKEYE | 237 | 138 | M | N/A | N/A | | |
| HS9735-034-118-029 | SOCKEYE | 223 | 116 | F | N/A | N/A | | |
| HS9735-034-118-030 | SOCKEYE | 228 | 107 | F | N/A | N/A | | |
| HS9735-034-118-031 | SOCKEYE | 230 | 148 | F | N/A | N/A | | |
| HS9735-035-118-001 | SOCKEYE | 240 | 154 | F | 0.21 | 74.42 | | |
| HS9735-035-118-002 | SOCKEYE | 248 | 143 | M | 0.19 | 75.32 | | |
| HS9735-035-118-003 | SOCKEYE | 255 | 182 | M | 0.00 | 73.71 | | |
| HS9735-035-118-004 | SOCKEYE | 237 | 139 | F | 0.00 | 75.68 | | |
| HS9735-035-118-005 | SOCKEYE | 224 | 109 | M | 0.24 | 75.39 | | |
| HS9735-035-118-006 | SOCKEYE | 259 | 166 | M | 0.00 | 76.17 | | |
| HS9735-035-118-007 | SOCKEYE | 257 | 198 | F | 0.00 | 74.34 | | |
| HS9735-035-118-008 | SOCKEYE | 224 | 105 | F | 0.31 | 75.98 | | |
| HS9735-035-118-009 | SOCKEYE | 218 | 107 | F | 0.05 | 76.16 | | |
| HS9735-035-118-010 | SOCKEYE | 205 | 87 | M | 0.05 | 76.78 | | |
| HS9735-035-118-011 | SOCKEYE | 225 | 118 | F | 0.25 | 75.34 | | |
| HS9735-035-118-012 | SOCKEYE | 226 | 128 | M | 0.32 | 75.67 | | |
| HS9735-035-118-013 | SOCKEYE | 214 | 101 | F | 0.51 | 76.64 | | |
| HS9735-035-118-014 | SOCKEYE | 260 | 185 | M | 1.64 | 74.93 | | |
| HS9735-035-118-015 | SOCKEYE | 220 | 107 | M | 0.57 | 75.15 | | |
| HS9735-035-118-016 | SOCKEYE | 217 | 103 | M | 0.42 | 76.28 | | |
| HS9735-035-118-017 | SOCKEYE | 259 | 187 | F | 1.19 | 73.47 | | |
| HS9735-035-118-018 | SOCKEYE | 240 | 139 | M | 0.45 | 76.68 | | |
| HS9735-035-118-019 | SOCKEYE | 270 | 216 | M | 0.87 | 73.30 | | |
| HS9735-035-118-020 | SOCKEYE | 227 | 122 | M | 1.37 | 75.79 | | |
| HS9735-035-118-021 | SOCKEYE | 233 | 139 | F | 0.19 | 76.30 | | |
| HS9735-035-118-022 | SOCKEYE | 245 | 155 | M | 0.69 | 77.95 | | |
| HS9735-035-118-023 | SOCKEYE | 230 | 137 | F | 0.47 | 74.78 | | |
| HS9735-035-118-024 | SOCKEYE | 235 | 131 | F | 0.62 | 76.31 | | |
| HS9735-035-118-025 | SOCKEYE | 220 | 106 | M | 2.17 | 77.07 | | |
| HS9735-035-118-026 | SOCKEYE | 212 | 97 | M | 0.57 | 77.31 | | |
| HS9735-035-118-027 | SOCKEYE | 235 | 135 | M | 1.84 | 74.53 | | |
| HS9735-035-118-028 | SOCKEYE | 221 | 114 | M | 0.16 | 76.76 | | |

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| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| HS9735-035-118-029 | SOCKEYE | 218 | 114 | M | 0.36 | 74.56 | | |
| HS9735-035-118-030 | SOCKEYE | 245 | 146 | F | 0.95 | 75.37 | | |
| HS9735-035-118-031 | SOCKEYE | 218 | 114 | F | N/A | N/A | | |
| HS9735-035-118-032 | SOCKEYE | 216 | 100 | F | N/A | N/A | | |
| HS9735-035-118-033 | SOCKEYE | 222 | 112 | F | N/A | N/A | | |
| HS9735-035-118-034 | SOCKEYE | 231 | 132 | M | N/A | N/A | | |
| HS9735-035-118-035 | SOCKEYE | 216 | 107 | F | N/A | N/A | | |
| HS9735-035-118-036 | SOCKEYE | 230 | 125 | M | N/A | N/A | | |
| HS9735-035-118-037 | SOCKEYE | 216 | 104 | M | N/A | N/A | | |
| HS9735-035-118-038 | SOCKEYE | 221 | 110 | M | N/A | N/A | | |
| HS9735-035-118-039 | SOCKEYE | 231 | 126 | F | N/A | N/A | | |
| HS9735-035-118-040 | SOCKEYE | 227 | 127 | F | N/A | N/A | | S-CK94-SOCK |
| HS9735-035-118-041 | SOCKEYE | 208 | 87 | F | N/A | N/A | | |
| HS9735-035-118-042 | SOCKEYE | 200 | 81 | F | N/A | N/A | | |
| HS9735-035-118-043 | SOCKEYE | 224 | 117 | M | N/A | N/A | | |
| HS9735-037-118-001 | SOCKEYE | 237 | 129 | M | N/A | N/A | | |
| HS9735-037-118-002 | SOCKEYE | 233 | 120 | F | N/A | N/A | | |
| HS9735-037-118-003 | SOCKEYE | 193 | 78 | M | N/A | N/A | | |
| HS9735-046-118-001 | SOCKEYE | 235 | 137 | F | 5.32 | 74.80 | | |
| HS9735-046-118-002 | SOCKEYE | 239 | 150 | M | 0.00 | 74.19 | | |
| HS9735-046-118-003 | SOCKEYE | 265 | 197 | F | 0.00 | 74.79 | | |
| HS9735-046-118-004 | SOCKEYE | 208 | 93 | M | 0.00 | 75.97 | | |
| HS9735-046-118-005 | SOCKEYE | 188 | 66 | M | 0.16 | 76.87 | | |
| HS9735-049-118-001 | SOCKEYE | 231 | 121 | F | 0.15 | 74.88 | | |
| HS9735-055-118-001 | SOCKEYE | 518 | 1301 | M | 7.42 | 75.10 | | |
| HS9735-055-118-002 | SOCKEYE | 437 | 900 | M | 0.00 | 76.01 | | |
| HS9735-055-118-003 | SOCKEYE | 308 | 309 | F | 1.03 | 71.13 | | |
| HS9735-057-118-001 | SOCKEYE | 225 | 113 | M | 0.02 | 75.26 | | |
| HS9735-057-118-002 | SOCKEYE | 198 | 91 | F | 0.37 | 75.47 | | |
| HS9735-061-118-001 | SOCKEYE | 215 | 96 | F | 0.00 | 73.88 | | |
| HS9735-061-118-002 | SOCKEYE | 233 | 121 | F | 0.09 | 75.39 | | |
| HS9735-061-118-003 | SOCKEYE | 228 | 112 | F | 0.00 | 74.71 | | |
| HS9735-061-118-004 | SOCKEYE | 228 | 126 | F | 0.00 | 75.30 | | |
| HS9735-061-118-005 | SOCKEYE | 231 | 130 | M | 0.00 | 74.08 | | |
| HS9735-061-118-006 | SOCKEYE | 268 | 206 | F | N/A | N/A | | |
| HS9735-061-118-007 | SOCKEYE | 260 | 179 | M | 0.00 | 74.00 | | |
| HS9735-061-118-008 | SOCKEYE | 250 | 154 | M | 0.00 | 72.29 | | |
| HS9735-062-118-001 | SOCKEYE | 224 | 120 | M | 0.10 | 72.28 | | |
| HS9735-062-118-002 | SOCKEYE | 242 | 152 | M | 0.08 | 72.89 | | |
| HS9735-062-118-003 | SOCKEYE | 233 | 130 | M | 0.45 | 72.44 | | |
| HS9735-062-118-004 | SOCKEYE | 241 | 134 | M | 0.01 | 73.12 | | |
| HS9735-062-118-005 | SOCKEYE | 250 | 156 | M | 0.01 | 73.88 | | |
| HS9735-062-118-006 | SOCKEYE | 254 | 164 | M | 0.12 | 73.47 | | |
| HS9735-062-118-007 | SOCKEYE | 222 | 114 | M | 0.25 | 73.99 | | |
| HS9735-062-118-008 | SOCKEYE | 231 | 133 | M | 0.00 | 74.06 | | |
| HS9735-062-118-009 | SOCKEYE | 247 | 156 | F | 0.01 | 72.89 | | |
| HS9735-063-118-001 | SOCKEYE | 260 | 175 | F | 0.00 | 73.33 | | |
| HS9735-065-118-001 | SOCKEYE | 249 | 149 | M | N/A | N/A | | |

**Thermal Mark Codes:**

| Mark | Brood Year | Source Hatchery (Alaska) |
|---|---|---|
| AFK96-CHUM | 1996 | Armin F. Koernig, South-central II. |
| G96-CHUM | 1996 | Gastineau, Southeast I. |
| HF96-CHUM | 1996 | Hidden Falls, Southeast I. |
| WHN96EARLY-CHUM | 1996 | Wally H. Noerenberg, South-central II, early release. |
| WHN96LATE-CHUM | 1996 | Wally H. Noerenberg, South-central II, late release. |
| WHN-PC96EARLY-CHU | 1996 | Wally H. Noerenberg, South-central II, Port Chalmers release site, early release. |
| WHN-PC96LATE-CHUM | 1996 | Wally H. Noerenberg, South-central II, Port Chalmers release site, late release. |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

| Fish Number | Species | Fork Length (mm) | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | % Water | CWT | Thermal Mark Code |
|---|---|---|---|---|---|---|---|---|
| G95-COHO | | 1995 | Gastineau, Southeast I. | | | | | |
| AFK96EARLY-PINK | | 1996 | Armin F. Koernig, South-central II, early release. | | | | | |
| AFK96LATE-PINK | | 1996 | Armin F. Koernig, South-central II, late release. | | | | | |
| CC96-PINK | | 1996 | Cannery Creek, South-central II. | | | | | |
| G96-PINK | | 1996 | Gastineau, ADFG Management Unit Southeast I. | | | | | |
| SG96-PINK | | 1996 | Soloman Gulch, South-central II (Prince William Sound and Cook Inlet). | | | | | |
| WHN96EARLY-PINK | | 1996 | Wally H. Noerenberg, South-central II, early release. | | | | | |
| WHN96LATE-PINK | | 1996 | Wally H. Noerenberg, South-central II, late release. | | | | | |
| S-CK94-SOCK | | 1994 | Snettisham, Southeast I, Chilkat Lake release site. | | | | | |

Table 3. Physical oceanographic data collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

| Station ID | CTD Filename | Transect | Region | Date | Time UTC | Latitude (°N) | Longitude (°W) | SST (°C) | SSS (ppt) | SSS Bottle (ppt) | $NO_3$ (µmol / L) | $SiO_4$ (µmol / L) | $PO_4$ (µmol / L) | Chlorophyll a (µg / L) | Phaeophytin (µg / L) | Fo / Fa |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HS9735CTD001 | 97350001 | QUEEN CHARLOTTE SD | QUEEN CHARLOTTE SD | 03-Nov-97 | 23:32 | 51.858 | 127.933 | 9.38 | 24.04 | 23.975 | 11.13 | 24.50 | 1.14 | 0.172 | 0.323 | 1.39 |
| HS973501 | 97350003 | CAPE OMMENEY | S.E. ALASKA | 05-Nov-97 | 15:43 | 55.990 | 134.560 | 10.10 | 31.33 | 31.324 | 14.08 | 25.07 | 1.32 | 0.074 | 0.134 | 1.40 |
| HS973502 | 97350005 | CAPE OMMENEY | S.E. ALASKA | 05-Nov-97 | 17:30 | 55.985 | 134.711 | 10.41 | 31.64 | 31.644 | 11.57 | 20.45 | 1.16 | 0.033 | 0.100 | 1.28 |
| HS973503 | 97350007 | CAPE OMMENEY | S.E. ALASKA | 05-Nov-97 | 19:17 | 56.000 | 134.844 | 10.64 | 31.84 | 31.932 | 8.10 | 16.26 | 1.04 | 0.077 | 0.204 | 1.31 |
| HS973504 | 97350009 | CAPE OMMENEY | S.E. ALASKA | 05-Nov-97 | 21:24 | 56.024 | 134.952 | 10.62 | 31.94 | 31.932 | 7.28 | 12.50 | 0.89 | 0.110 | 0.213 | 1.38 |
| HS973505 | 97350011 | CAPE OMMENEY | S.E. ALASKA | 05-Nov-97 | 23:17 | 56.031 | 135.082 | 10.33 | 31.57 | 31.562 | 11.25 | 20.23 | 1.15 | 0.064 | 0.141 | 1.35 |
| HS9735CTD013 | 97350013 | CAPE OMMENEY | S.E. ALASKA | 06-Nov-97 | 02:02 | 56.006 | 135.274 | 10.38 | 31.75 | 31.740 | 8.72 | 15.85 | 1.17 | 0.074 | 0.155 | 1.36 |
| HS9735CTD015 | 97350015 | CAPE OMMENEY | S.E. ALASKA | 06-Nov-97 | 04:21 | 55.992 | 135.586 | 10.53 | 32.08 | 32.073 | 7.06 | 11.93 | 0.89 | 0.084 | 0.193 | 1.34 |
| HS973510 | 97350017 | CAPE OMMENEY | S.E. ALASKA | 06-Nov-97 | 05:26 | 55.992 | 135.732 | 10.59 | 32.21 | 32.208 | 4.40 | 7.13 | 0.70 | 0.091 | 0.256 | 1.30 |
| HS973509 | 97350019 | CAPE OMMENEY | S.E. ALASKA | 06-Nov-97 | 06:41 | 55.993 | 135.888 | 10.62 | 32.18 | 32.170 | 3.55 | 5.45 | 0.72 | 0.074 | 0.236 | 1.27 |
| HS973508 | 97350021 | CAPE OMMENEY | S.E. ALASKA | 06-Nov-97 | 08:10 | 55.993 | 136.039 | 10.58 | 32.14 | 32.138 | 4.49 | 8.24 | 0.73 | 0.032 | 0.085 | 1.31 |
| HS973507 | 97350023 | CAPE OMMENEY | S.E. ALASKA | 06-Nov-97 | 09:23 | 55.991 | 136.180 | 10.45 | 32.10 | 32.090 | 6.64 | 7.81 | 0.78 | 0.033 | 0.090 | 1.30 |
| HS973511 | 97350025 | CAPE OMMENEY | S.E. ALASKA | 06-Nov-97 | 20:51 | 56.002 | 132.710 | 10.25 | 31.91 | 31.896 | 9.83 | 16.93 | 1.08 | 0.071 | 0.180 | 1.32 |
| HS973512 | 97350027 | CAPE OMMENEY | S.E. ALASKA | 06-Nov-97 | 22:48 | 56.023 | 135.573 | 10.62 | 32.11 | 32.108 | 5.85 | 9.51 | 0.80 | 0.086 | 0.225 | 1.31 |
| HS973513 | 97350029 | CAPE OMMENEY | S.E. ALASKA | 07-Nov-97 | 01:03 | 56.050 | 135.380 | 10.29 | 31.95 | 31.966 | 9.04 | 15.27 | 1.01 | 0.079 | 0.185 | 1.34 |
| HS973514 | 97350031 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 16:29 | 57.666 | 137.499 | 10.17 | 32.24 | 32.235 | 5.27 | 10.28 | 0.78 | 0.073 | 0.224 | 1.28 |
| HS973515 | 97350035 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 18:04 | 57.702 | 137.410 | 10.15 | 32.19 | 32.202 | 5.90 | 10.13 | 0.81 | 0.092 | 0.248 | 1.31 |
| HS973516 | 97350037 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 19:41 | 57.764 | 137.331 | 10.18 | 32.03 | 32.033 | 5.97 | 10.27 | 0.80 | 0.044 | 0.106 | 1.33 |
| HS973517 | 97350039 | CAPE CROSS | S.E. ALASKA | 07-Nov-97 | 22:10 | 57.817 | 137.063 | 10.47 | 31.99 | 31.984 | 5.70 | 9.52 | 0.72 | 0.059 | 0.186 | 1.27 |
| HS973518 | 97350041 | CAPE CROSS | S.E. ALASKA | 08-Nov-97 | 00:00 | 57.878 | 136.903 | 9.98 | 31.71 | 31.719 | 10.05 | 17.57 | 1.07 | 0.170 | 0.309 | 1.40 |
| HS9735CTD043 | 97350043 | CAPE CROSS | S.E. ALASKA | 08-Nov-97 | 01:39 | 57.941 | 136.797 | 9.68 | 31.35 | 31.387 | 9.87 | 18.55 | 0.97 | 0.110 | 0.231 | 1.36 |
| HS973519 | 97350045 | CAPE CROSS | S.E. ALASKA | 08-Nov-97 | 03:44 | 57.972 | 136.724 | 9.26 | 31.52 | 31.555 | 12.94 | 22.46 | 1.24 | 0.090 | 0.164 | 1.40 |
| HS9735CTD047 | 97350047 | CAPE CROSS | S.E. ALASKA | 08-Nov-97 | 10:19 | 57.493 | 138.185 | 9.63 | 32.11 | 32.097 | 4.95 | 9.59 | 0.76 | 0.077 | 0.176 | 1.34 |
| HS973520 | 97350049 | CAPE CROSS | S.E. ALASKA | 08-Nov-97 | 16:08 | 57.231 | 139.171 | 9.29 | 32.24 | 32.237 | 6.81 | 11.00 | 0.94 | 0.089 | 0.221 | 1.32 |
| HS973521 | 97350051 | OFFSHORE | OFFSHORE | 10-Nov-97 | 16:29 | 56.217 | 139.739 | 9.48 | 32.48 | 32.468 | 5.70 | 8.45 | 0.82 | 0.066 | 0.191 | 1.29 |
| HS973522 | 97350053 | OFFSHORE | OFFSHORE | 10-Nov-97 | 22:00 | 56.432 | 140.691 | 8.89 | 32.48 | 32.466 | 7.56 | 10.07 | 0.94 | 0.064 | 0.136 | 1.36 |
| HS973523 | 97350059 | OFFSHORE | OFFSHORE | 11-Nov-97 | 03:48 | 56.571 | 141.471 | 9.16 | 32.47 | 32.465 | 5.76 | 11.05 | 0.94 | 0.064 | 0.169 | 1.31 |
| HS9735CTD061 | 97350061 | OFFSHORE | OFFSHORE | 11-Nov-97 | 08:09 | 56.654 | 142.360 | 8.78 | 32.50 | 32.490 | 6.43 | 9.01 | 0.90 | 0.022 | 0.061 | 1.30 |
| HS9735CTD063 | 97350063 | OFFSHORE | OFFSHORE | 11-Nov-97 | 12:40 | 56.708 | 143.222 | 8.71 | 32.53 | 32.528 | 6.81 | 9.72 | 0.89 | 0.054 | 0.131 | 1.33 |
| HS973524 | 97350065 | OFFSHORE | OFFSHORE | 11-Nov-97 | 16:59 | 56.712 | 144.138 | 8.41 | 32.56 | 32.561 | 9.11 | 10.25 | 0.99 | 0.097 | 0.224 | 1.34 |
| HS973525 | 97350067 | OFFSHORE | OFFSHORE | 11-Nov-97 | 21:36 | 56.785 | 145.082 | 8.38 | 32.61 | 32.601 | 8.93 | 15.39 | 1.07 | 0.011 | 0.021 | 1.38 |
| HS973526 | 97350069 | OFFSHORE | OFFSHORE | 12-Nov-97 | 03:39 | 56.834 | 145.878 | 8.12 | 32.59 | 32.620 | 10.16 | 17.74 | 1.11 | 0.043 | 0.107 | 1.33 |
| HS9735CTD071 | 97350071 | OFFSHORE | OFFSHORE | 12-Nov-97 | 09:01 | 56.627 | 146.943 | 8.00 | 32.56 | 32.542 | 8.23 | 13.13 | 1.01 | 0.086 | 0.155 | 1.40 |
| HS973527 | 97350073 | CAPE CHINIAK | KODIAK ISLAND | 12-Nov-97 | 13:46 | 56.417 | 148.001 | 7.85 | 32.48 | 32.476 | 13.80 | 12.71 | 0.77 | 0.088 | 0.231 | 1.31 |
| HS973528 | 97350075 | CAPE CHINIAK | KODIAK ISLAND | 12-Nov-97 | 16:54 | 56.489 | 148.287 | 7.86 | 32.50 | 32.504 | 8.74 | 14.98 | 1.03 | 0.067 | 0.135 | 1.38 |
| HS973529 | 97350077 | CAPE CHINIAK | KODIAK ISLAND | 12-Nov-97 | 19:36 | 56.565 | 148.561 | 7.98 | 32.45 | 32.446 | 9.92 | 15.56 | 1.10 | 0.076 | 0.178 | 1.34 |
| HS973530 | 97350079 | CAPE CHINIAK | KODIAK ISLAND | 12-Nov-97 | 23:29 | 56.645 | 148.815 | 7.71 | 32.30 | 32.296 | 11.31 | 17.41 | 1.21 | 0.094 | 0.239 | 1.32 |
| HS973544 | 97350081 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 03:46 | 56.755 | 149.162 | 7.75 | 32.43 | 32.429 | 10.03 | 14.43 | 1.04 | 0.095 | 0.223 | 1.34 |
| HS973543 | 97350083 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 05:16 | 56.801 | 149.382 | 7.67 | 32.38 | 32.389 | 11.30 | 17.53 | 1.20 | 0.092 | 0.198 | 1.36 |
| HS973542 | 97350085 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 07:03 | 56.878 | 149.648 | 7.13 | 32.34 | 32.336 | 14.49 | 21.41 | 1.39 | 0.157 | 0.246 | 1.44 |
| HS973541 | 97350087 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 09:02 | 56.953 | 149.924 | 7.70 | 32.38 | 32.375 | 11.45 | 17.01 | 0.94 | 0.102 | 0.220 | 1.36 |
| HS973540 | 97350089 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 10:48 | 57.024 | 150.206 | 8.33 | 32.23 | 32.337 | 7.69 | 12.76 | 0.94 | 0.066 | 0.153 | 1.34 |
| HS973539 | 97350091 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 12:21 | 57.098 | 150.479 | 8.30 | 32.40 | 32.394 | 8.55 | 13.19 | 1.06 | 0.084 | 0.177 | 1.36 |
| HS973538 | 97350093 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 13:58 | 57.168 | 150.750 | 7.39 | 32.19 | 32.180 | 12.44 | 18.66 | 1.24 | 0.069 | 0.118 | 1.42 |
| HS973532 | 97350095 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 15:03 | 57.208 | 150.879 | 8.15 | 32.29 | 32.282 | 9.44 | 12.92 | 1.05 | 0.094 | 0.230 | 1.33 |

Table 3. Physical oceanographic data collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

| Station ID | CTD Filename | Transect | Region | Date | Time UTC | Latitude (°N) | Longitude (°W) | SST (°C) | SSS (ppt) | SSS Bottle (ppt) | $NO_3$ (µmol / L) | $SiO_4$ (µmol / L) | $PO_4$ (µmol / L) | Chlorophyll a (µg / L) | Phaeophytin (µg / L) | Fo / Fa |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HS973533 | 97350097 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 17:09 | 57.251 | 151.010 | 8.23 | 32.33 | 32.314 | 8.96 | 11.58 | 0.95 | 0.133 | 0.259 | 1.38 |
| HS973534 | 97350099 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 18:44 | 57.283 | 151.138 | 6.77 | 31.98 | 31.977 | 13.71 | 21.10 | 1.37 | 0.123 | 0.194 | 1.44 |
| HS973535 | 97350101 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 20:50 | 57.315 | 151.283 | 6.86 | 31.97 | 31.967 | 13.33 | 21.11 | 1.35 | 0.017 | 0.044 | 1.32 |
| HS973536 | 97350103 | CAPE CHINIAK | KODIAK ISLAND | 13-Nov-97 | 23:21 | 57.351 | 151.423 | 7.03 | 31.68 | 31.678 | 10.74 | 17.62 | 1.29 | 0.063 | 0.121 | 1.38 |
| HS973537 | 97350105 | CAPE CHINIAK | KODIAK ISLAND | 14-Nov-97 | 02:06 | 57.389 | 151.565 | 7.04 | 31.66 | 31.653 | 10.11 | 15.21 | 1.19 | 0.080 | 0.156 | 1.38 |
| HS9735CTD107 | 97350107 | CAPE CHINIAK | KODIAK ISLAND | 14-Nov-97 | 04:38 | 57.430 | 151.702 | 6.98 | 31.64 | 31.643 | 11.04 | 18.74 | 1.28 | 0.069 | 0.168 | 1.33 |
| HS9735CTD109 | 97350109 | CAPE CHINIAK | KODIAK ISLAND | 14-Nov-97 | 05:28 | 57.469 | 151.846 | 7.15 | 31.91 | 31.896 | 8.70 | 13.04 | 1.01 | 0.118 | 0.253 | 1.36 |
| HS9735CTD111 | 97350111 | CAPE CHINIAK | KODIAK ISLAND | 14-Nov-97 | 06:17 | 57.507 | 151.989 | 6.97 | 31.78 | 31.769 | 9.76 | 10.52 | 1.28 | 0.110 | 0.259 | 1.34 |
| HS973545 | 97350113 | CAPE CHINIAK | KODIAK ISLAND | 15-Nov-97 | 14:01 | 57.252 | 150.537 | 8.34 | 32.35 | 32.347 | 9.01 | 14.60 | 0.99 | 0.058 | 0.134 | 1.34 |
| HS9735CTD117 | 97350117 | CAPE CHINIAK | KODIAK ISLAND | 15-Nov-97 | 17:01 | 57.303 | 150.704 | 8.15 | 32.27 | 32.259 | 10.82 | 15.67 | 1.12 | 0.113 | 0.217 | 1.39 |
| HS973546 | 97350119 | MITROFANIA ISLAND | ALASKA PENINSULA | 19-Nov-97 | 18:46 | 55.597 | 157.145 | 6.70 | 31.41 | 31.407 | 10.35 | 16.45 | 0.99 | 0.133 | 0.182 | 1.48 |
| HS973547 | 97350121 | MITROFANIA ISLAND | ALASKA PENINSULA | 19-Nov-97 | 20:23 | 55.531 | 157.086 | 6.61 | 31.14 | 31.123 | 9.53 | 15.30 | 0.93 | 0.109 | 0.138 | 1.50 |
| HS973548 | 97350123 | MITROFANIA ISLAND | ALASKA PENINSULA | 19-Nov-97 | 22:12 | 55.438 | 157.003 | 6.67 | 31.03 | 31.039 | 9.69 | 15.71 | 1.06 | 0.100 | 0.132 | 1.49 |
| HS973549 | 97350125 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 00:05 | 55.355 | 156.924 | 7.04 | 31.14 | 31.131 | 9.47 | 15.70 | 1.02 | 0.131 | 0.192 | 1.46 |
| HS973550 | 97350127 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 02:39 | 55.217 | 156.842 | 7.33 | 31.30 | 31.291 | 10.53 | 14.76 | 1.05 | 0.094 | 0.180 | 1.39 |
| HS973551 | 97350129 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 04:24 | 55.108 | 156.779 | 6.98 | 31.60 | 31.504 | 11.27 | 16.04 | 1.00 | 0.235 | 0.219 | 1.59 |
| HS973556 | 97350131 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 05:34 | 55.039 | 156.666 | 7.18 | 32.08 | 32.070 | 8.71 | 12.83 | 1.10 | 0.239 | 0.383 | 1.43 |
| HS973555 | 97350133 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 07:15 | 54.936 | 156.591 | 7.30 | 32.32 | 32.311 | 8.71 | 11.97 | 1.04 | 0.134 | 0.265 | 1.38 |
| HS973554 | 97350135 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 08:49 | 54.858 | 156.532 | 7.44 | 32.35 | 32.345 | 8.43 | 12.03 | 1.01 | 0.157 | 0.274 | 1.41 |
| HS973553 | 97350137 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 10:06 | 54.788 | 156.472 | 7.44 | 32.36 | 32.349 | 6.78 | 9.40 | 0.99 | 0.168 | 0.288 | 1.42 |
| HS973552 | 97350139 | MITROFANIA ISLAND | ALASKA PENINSULA | 20-Nov-97 | 11:42 | 54.700 | 156.395 | 7.32 | 32.50 | 32.499 | 8.67 | 12.83 | 1.06 | 0.162 | 0.235 | 1.46 |
| HS973558 | 97350141 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 23-Nov-97 | 22:02 | 55.317 | 158.842 | 6.26 | 31.37 | 31.358 | 9.26 | 13.33 | 1.09 | 0.514 | 0.537 | 1.55 |
| HS9735CTD143 | 97350143 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 23-Nov-97 | 23:38 | 55.246 | 158.738 | 6.70 | 31.36 | 31.352 | 9.23 | 12.75 | 1.08 | 0.164 | 0.208 | 1.50 |
| HS9735CTD145 | 97350145 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 00:30 | 55.181 | 158.635 | 6.72 | 31.28 | 31.281 | 9.38 | 13.03 | 1.09 | 0.202 | 0.209 | 1.56 |
| HS973559 | 97350147 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 01:10 | 55.140 | 158.544 | 6.67 | 31.45 | 31.453 | 9.88 | 13.67 | 1.10 | 0.188 | 0.264 | 1.47 |
| HS9735CTD149 | 97350149 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 02:44 | 55.070 | 158.436 | 6.64 | 31.35 | 31.350 | 9.66 | 14.31 | 1.12 | 0.057 | 0.104 | 1.40 |
| HS9735CTD151 | 97350151 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 03:27 | 55.019 | 158.348 | 6.59 | 31.32 | 31.313 | 8.10 | 11.43 | 1.15 | 0.113 | 0.150 | 1.49 |
| HS973560 | 97350153 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 05:26 | 54.952 | 158.142 | 6.63 | 31.22 | 31.214 | 10.09 | 16.07 | 1.06 | 0.107 | 0.171 | 1.44 |
| HS9735CTD155 | 97350155 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 06:12 | 54.901 | 158.086 | 6.61 | 31.18 | 31.186 | 11.47 | 16.28 | 0.98 | 0.094 | 0.168 | 1.41 |
| HS9735CTD157 | 97350157 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 07:08 | 54.837 | 158.001 | 6.61 | 31.17 | 31.167 | 9.03 | 14.41 | 1.13 | 0.114 | 0.182 | 1.43 |
| HS9735CTD159 | 97350159 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 08:05 | 54.763 | 157.887 | 6.46 | 31.20 | 31.184 | 10.21 | 16.04 | 1.09 | 0.096 | 0.138 | 1.47 |
| HS9735CTD161 | 97350161 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 09:21 | 54.712 | 157.759 | 6.72 | 31.93 | 31.920 | 10.40 | 15.66 | 1.16 | 0.141 | 0.215 | 1.45 |
| HS9735CTD163 | 97350163 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 10:52 | 54.652 | 157.637 | 6.95 | 32.25 | 32.247 | 11.59 | 17.38 | 1.18 | 0.236 | 0.345 | 1.46 |
| HS9735CTD166 | 97350166 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 24-Nov-97 | 20:20 | 54.525 | 157.400 | 6.92 | 32.39 | 32.375 | 7.06 | 10.11 | 0.97 | 0.160 | 0.362 | 1.35 |
| HS973561 | 97350168 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 18:51 | 54.362 | 161.826 | 6.23 | 31.48 | 31.457 | 9.33 | 12.95 | 1.00 | 0.118 | 0.186 | 1.44 |
| HS973562 | 97350170 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 19:34 | 54.316 | 161.742 | 6.23 | 31.50 | 31.455 | 8.96 | 12.25 | 0.99 | 0.108 | 0.187 | 1.41 |
| HS9735CTD172 | 97350172 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 21:11 | 54.255 | 161.587 | 6.26 | 31.65 | 31.526 | 10.37 | 14.51 | 1.08 | 0.102 | 0.166 | 1.43 |
| HS973563 | 97350174 | SANAK BANK | ALASKA PENINSULA | 01-Dec-97 | 21:56 | 54.199 | 161.487 | 6.43 | 31.73 | 31.654 | 3.71 | 4.76 | 1.13 | 0.078 | 0.131 | 1.42 |
| HS973567 | 97350176 | SANAK BANK | ALASKA PENINSULA | 02-Dec-97 | 04:26 | 53.905 | 160.881 | 6.07 | 31.96 | 31.958 | 10.24 | 14.89 | 1.16 | 0.184 | 0.310 | 1.42 |
| HS973566 | 97350178 | SANAK BANK | ALASKA PENINSULA | 02-Dec-97 | 06:05 | 53.956 | 161.027 | 5.94 | 31.73 | 31.726 | 9.68 | 14.56 | 1.20 | 0.174 | 0.275 | 1.44 |
| HS973565 | 97350180 | SANAK BANK | ALASKA PENINSULA | 02-Dec-97 | 07:17 | 54.033 | 161.145 | 6.05 | 31.50 | 31.511 | 10.30 | 14.20 | 1.18 | 0.152 | 0.207 | 1.48 |
| HS973564 | 97350182 | SANAK BANK | ALASKA PENINSULA | 02-Dec-97 | 08:26 | 54.085 | 161.256 | 6.23 | 31.59 | 31.589 | 10.99 | 14.69 | 1.18 | 0.152 | 0.216 | 1.47 |
| HS9735CTD184 | 97350184 | SANAK BANK | ALASKA PENINSULA | 02-Dec-97 | 09:32 | 54.142 | 161.383 | 6.25 | 31.49 | 31.562 | 11.15 | 14.40 | 1.12 | 0.083 | 0.137 | 1.43 |
| HS9735CTD186 | 97350186 | KODIAK ISLAND | KODIAK ISLAND | 04-Dec-97 | 07:16 | 58.750 | 152.132 | 6.73 | 31.99 | 32.022 | 11.68 | 17.37 | 1.27 | 0.062 | 0.132 | 1.36 |
| HS9735CTD188 | 97350188 | KODIAK ISLAND | KODIAK ISLAND | 04-Dec-97 | 08:31 | 58.726 | 151.816 | 6.86 | 31.92 | 31.914 | 12.35 | 19.00 | 1.25 | 0.019 | 0.045 | 1.34 |

Table 3. Physical oceanographic data collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

| Station ID | CTD Filename | Transect | Region | Date | Time UTC | Latitude (°N) | Longitude (°W) | SST (°C) | SSS (ppt) | SSS Bottle (ppt) | $NO_3$ (µmol / L) | $SiO_4$ (µmol / L) | $PO_4$ (µmol / L) | Chlorophyll a (µg / L) | Phaeophytin (µg / L) | Fo / Fa |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HS9735CTD190 | 97350190 | KODIAK ISLAND | KODIAK ISLAND | 04-Dec-97 | 09:53 | 58.700 | 151.481 | 7.09 | 31.98 | 31.964 | 10.66 | 16.30 | 1.25 | 0.058 | 0.125 | 1.36 |
| HS9735CTD192 | 97350192 | KODIAK ISLAND | KODIAK ISLAND | 04-Dec-97 | 11:28 | 58.669 | 151.142 | 6.82 | 32.15 | 32.141 | 12.87 | 18.63 | 1.25 | 0.064 | 0.100 | 1.44 |
| HS9735CTD194 | 97350194 | KODIAK ISLAND | KODIAK ISLAND | 04-Dec-97 | 12:59 | 58.646 | 150.823 | 6.67 | 32.25 | 32.245 | 11.74 | 16.92 | 1.27 | 0.063 | 0.106 | 1.42 |
| HS9735CTD196 | 97350196 | KODIAK ISLAND | KODIAK ISLAND | 04-Dec-97 | 14:32 | 58.631 | 150.515 | 6.66 | 32.27 | 32.255 | 12.94 | 18.55 | 1.28 | 0.064 | 0.120 | 1.39 |
| HS9735CTD198 | 97350198 | OFFSHORE | OFFSHORE | 06-Dec-97 | 16:47 | 58.336 | 142.092 | 8.03 | 32.45 | 32.439 | 6.39 | 8.30 | 0.92 | 0.061 | 0.122 | 1.38 |
| HS9735CTD200 | 97350200 | OFFSHORE | OFFSHORE | 06-Dec-97 | 21:06 | 58.283 | 141.270 | 7.76 | 32.33 | 32.325 | 7.86 | 11.12 | 0.99 | 0.072 | 0.162 | 1.35 |
| HS9735CTD202 | 97350202 | CAPE SPENCER | S.E. ALASKA | 07-Dec-97 | 17:31 | 58.208 | 139.023 | 9.02 | 31.72 | 31.703 | 13.05 | 21.44 | 1.25 | 0.021 | 0.055 | 1.31 |
| HS9735CTD204 | 97350204 | CAPE SPENCER | S.E. ALASKA | 07-Dec-97 | 19:04 | 58.188 | 138.737 | 9.01 | 31.64 | 31.624 | 14.09 | 23.72 | 1.32 | 0.019 | 0.049 | 1.32 |
| HS9735CTD206 | 97350206 | CAPE SPENCER | S.E. ALASKA | 07-Dec-97 | 20:30 | 58.163 | 138.415 | 8.91 | 31.61 | 31.599 | 13.07 | 22.36 | 1.28 | 0.026 | 0.059 | 1.35 |
| HS973568 | 97350208 | CAPE SPENCER | S.E. ALASKA | 07-Dec-97 | 21:55 | 58.160 | 138.083 | 8.88 | 31.73 | 31.714 | 9.73 | 16.03 | 1.26 | 0.022 | 0.052 | 1.34 |
| HS973569 | 97350210 | CAPE SPENCER | S.E. ALASKA | 07-Dec-97 | 23:54 | 58.154 | 137.777 | 9.24 | 32.02 | 31.998 | 11.87 | 19.72 | 1.21 | 0.056 | 0.116 | 1.37 |
| HS973570 | 97350212 | CAPE SPENCER | S.E. ALASKA | 08-Dec-97 | 01:26 | 58.151 | 137.514 | 9.20 | 31.91 | 31.898 | 12.95 | 21.42 | 1.26 | 0.031 | 0.066 | 1.36 |
| HS9735CTD214 | 97350214 | CAPE SPENCER | S.E. ALASKA | 08-Dec-97 | 03:26 | 58.128 | 137.130 | 8.80 | 31.63 | 31.616 | 13.59 | 23.68 | 1.31 | 0.031 | 0.066 | 1.36 |
| HS9735CTD216 | 97350216 | CAPE SPENCER | S.E. ALASKA | 08-Dec-97 | 04:41 | 58.119 | 136.830 | 7.63 | 31.35 | 31.335 | 18.88 | 32.09 | 1.45 | 0.033 | 0.080 | 1.33 |

Table 4. Zooplankton data from bongo tows collected on the W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

| Station ID | Transect | Region | Latitude (°N) | Longitude (°W) | Date | Time PST | Bottom Depth (m) | Target Depth (m) | Tow Duration | Wire Angle (°) | Wire Out (m) | Volume Seived ($m^3$) | Plankton Weights by Size Fraction (g dry / 1000 $m^3$) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 8.0 mm | 1.7 mm | 1.0 mm | 0.25 mm | Total |
| HS973501 | CAPE OMMENEY | S.E. ALASKA | 55.987 | 134.573 | 05-Nov-97 | 08:05 | 191 | 150 | 0:08 | 30 | 173 | 77 | 9.83 | 0.00 | 0.00 | 3.10 | 12.94 |
| HS973502 | CAPE OMMENEY | S.E. ALASKA | 55.987 | 134.723 | 05-Nov-97 | 10:00 | 195 | 150 | 0:07 | 30 | 173 | 129 | 0.70 | 1.01 | 0.00 | 2.26 | 3.97 |
| HS973503 | CAPE OMMENEY | S.E. ALASKA | 56.003 | 134.843 | 05-Nov-97 | 11:34 | 205 | 150 | 0:11 | 25 | 165 | 140 | 8.86 | 0.79 | 0.71 | 1.07 | 11.43 |
| HS973504 | CAPE OMMENEY | S.E. ALASKA | 56.025 | 134.948 | 05-Nov-97 | 13:41 | 210 | 150 | 0:19 | 45 | 212 | 223 | N/A | N/A | N/A | N/A | N/A |
| HS973505 | CAPE OMMENEY | S.E. ALASKA | 56.030 | 135.095 | 05-Nov-97 | 15:48 | 278 | 150 | 0:16 | 43 | 212 | 212 | 6.43 | 0.52 | 0.00 | 0.76 | 7.70 |
| HS973507 | CAPE OMMENEY | S.E. ALASKA | 55.985 | 136.198 | 06-Nov-97 | 07:03 | 2,702 | 150 | 0:09 | 45 | 212 | 135 | 2.15 | 8.37 | 0.22 | 3.71 | 14.45 |
| HS973508 | CAPE OMMENEY | S.E. ALASKA | 55.983 | 136.068 | 06-Nov-97 | 08:26 | 2,600 | 150 | 0:18 | 40 | 195 | 315 | 0.38 | 0.76 | 0.57 | 4.16 | 5.88 |
| HS973510 | CAPE OMMENEY | S.E. ALASKA | 55.990 | 135.857 | 06-Nov-97 | 10:55 | 2,300 | 150 | 0:12 | 45 | 212 | 225 | 0.09 | 1.38 | 0.27 | 4.67 | 6.40 |
| HS973511 | CAPE OMMENEY | S.E. ALASKA | 56.007 | 135.707 | 06-Nov-97 | 13:25 | 1,626 | 150 | 0:17 | 35 | 183 | 193 | 0.41 | 0.41 | 0.21 | 2.64 | 3.67 |
| HS973512 | CAPE OMMENEY | S.E. ALASKA | 56.028 | 135.568 | 06-Nov-97 | 15:16 | 992 | 150 | 0:21 | 40 | 195 | 258 | 1.13 | 0.85 | 0.23 | 3.49 | 5.70 |
| HS973513 | CAPE OMMENEY | S.E. ALASKA | 56.052 | 135.377 | 06-Nov-97 | 17:18 | 426 | 150 | 0:15 | 30 | 173 | 210 | 1.14 | 3.71 | 0.19 | 2.23 | 7.27 |
| HS973516 | CAPE CROSS | S.E. ALASKA | 57.770 | 137.328 | 07-Nov-97 | 12:19 | 595 | 150 | 0:15 | 35 | 183 | 177 | 2.66 | 0.40 | 0.34 | 3.11 | 6.51 |
| HS973517 | CAPE CROSS | S.E. ALASKA | 57.820 | 137.060 | 07-Nov-97 | 14:27 | 486 | 150 | 0:15 | 33 | 179 | 105 | 6.31 | 0.19 | 0.19 | 6.69 | 13.38 |
| HS973518 | CAPE CROSS | S.E. ALASKA | 57.882 | 136.898 | 07-Nov-97 | 16:18 | 449 | 150 | 0:20 | 33 | 179 | 299 | 16.35 | 1.37 | 0.03 | 2.08 | 19.83 |
| HS973519 | CAPE CROSS | S.E. ALASKA | 57.973 | 136.712 | 07-Nov-97 | 19:29 | 199 | 100 | 0:10 | 37 | 110 | 109 | 17.70 | 3.58 | 1.10 | 3.21 | 25.58 |
| HS973521 | OFFSHORE | OFFSHORE | 56.218 | 139.737 | 10-Nov-97 | 09:10 | 3,418 | 150 | 0:13 | 45 | 212 | 110 | 165.34 | 30.56 | 5.80 | 6.71 | 208.42 |
| HS973522 | OFFSHORE | OFFSHORE | 56.427 | 140.683 | 10-Nov-97 | 14:48 | 3,613 | 150 | 0:22 | 50 | 233 | 307 | 13.26 | 17.78 | 3.42 | 3.42 | 37.88 |
| HS973523 | OFFSHORE | OFFSHORE | 56.578 | 141.472 | 10-Nov-97 | 19:26 | 3,603 | 150 | 0:16 | 25 | 165 | 163 | 3.62 | 21.07 | 0.25 | 2.33 | 27.27 |
| HS973525 | OFFSHORE | OFFSHORE | 56.792 | 145.093 | 11-Nov-97 | 14:16 | 3,936 | 150 | 0:16 | 35 | 183 | 117 | 2.65 | 39.18 | 2.05 | 4.35 | 48.22 |
| HS973526 | OFFSHORE | OFFSHORE | 56.838 | 145.883 | 11-Nov-97 | 19:24 | 4,013 | 150 | 0:14 | 40 | 195 | 142 | 3.25 | 37.23 | 0.49 | 2.68 | 43.65 |
| HS973527 | CAPE CHINIAK | KODIAK ISLAND | 56.403 | 148.037 | 12-Nov-97 | 06:58 | 4,091 | 150 | 0:14 | 40 | 195 | 203 | 3.80 | 8.39 | 0.79 | 1.53 | 14.51 |
| HS973528 | CAPE CHINIAK | KODIAK ISLAND | 56.488 | 148.288 | 12-Nov-97 | 09:30 | 4,171 | 150 | 0:20 | 58 | 280 | 244 | 0.94 | 4.43 | 1.56 | 4.10 | 11.04 |
| HS973529 | CAPE CHINIAK | KODIAK ISLAND | 56.565 | 148.557 | 12-Nov-97 | 12:13 | 4,207 | 150 | 0:12 | 30 | 173 | 159 | 2.52 | 0.50 | 0.19 | 4.41 | 7.62 |
| HS973530 | CAPE CHINIAK | KODIAK ISLAND | 56.643 | 148.805 | 12-Nov-97 | 16:04 | 4,408 | 150 | 0:18 | 50 | 233 | 243 | 1.03 | 0.12 | 0.37 | 1.60 | 3.12 |
| HS973532 | CAPE CHINIAK | KODIAK ISLAND | 57.207 | 150.882 | 13-Nov-97 | 07:21 | 274 | 150 | 0:17 | 50 | 233 | 219 | 10.62 | 4.44 | 2.38 | 23.24 | 40.68 |
| HS973533 | CAPE CHINIAK | KODIAK ISLAND | 57.252 | 151.015 | 13-Nov-97 | 09:20 | 164 | 110 | 0:10 | 50 | 180 | 163 | 8.15 | 17.47 | 6.93 | 23.67 | 56.23 |
| HS973534 | CAPE CHINIAK | KODIAK ISLAND | 57.287 | 151.145 | 13-Nov-97 | 10:55 | 175 | 80 | 0:07 | 45 | 100 | 136 | 0.15 | 2.95 | 0.66 | 4.28 | 8.04 |
| HS973535 | CAPE CHINIAK | KODIAK ISLAND | 57.317 | 151.293 | 13-Nov-97 | 13:02 | 175 | 140 | 0:13 | 40 | 182 | 257 | 9.21 | 0.31 | 0.12 | 0.93 | 10.57 |
| HS973540 | CAPE CHINIAK | KODIAK ISLAND | 57.020 | 150.193 | 14-Nov-97 | 10:19 | 1,909 | 150 | 0:14 | 30 | 173 | 146 | 6.12 | 1.10 | 0.55 | 3.57 | 11.34 |
| HS973541 | CAPE CHINIAK | KODIAK ISLAND | 56.943 | 149.913 | 14-Nov-97 | 12:16 | 2,676 | 150 | 0:20 | 45 | 212 | 219 | 31.12 | 3.15 | 1.46 | 4.16 | 39.89 |
| HS973542 | CAPE CHINIAK | KODIAK ISLAND | 56.863 | 149.655 | 14-Nov-97 | 14:02 | 3,980 | 150 | 0:15 | 50 | 233 | 228 | 0.53 | 4.26 | 1.05 | 3.03 | 8.88 |
| HS973543 | CAPE CHINIAK | KODIAK ISLAND | 56.792 | 149.388 | 14-Nov-97 | 15:55 | 4,686 | 150 | 0:10 | 45 | 212 | 185 | 2.60 | 4.33 | 1.79 | 10.94 | 19.66 |
| HS973544 | CAPE CHINIAK | KODIAK ISLAND | 56.720 | 149.115 | 14-Nov-97 | 18:05 | 4,131 | 150 | 0:15 | 35 | 183 | 160 | 1.32 | 26.57 | 2.32 | 16.23 | 46.43 |
| HS973545 | CAPE CHINIAK | KODIAK ISLAND | 57.245 | 150.515 | 15-Nov-97 | 07:05 | 517 | 150 | 0:22 | 55 | 261 | 275 | 5.46 | 9.07 | 0.69 | 3.75 | 18.98 |
| HS973546 | MITROFANIA ISLAND | ALASKA PENINSULA | 55.598 | 157.145 | 19-Nov-97 | 10:58 | 147 | 60 | 0:06 | 30 | 69 | 52 | 13.27 | 11.16 | 3.65 | 3.08 | 31.16 |
| HS973547 | MITROFANIA ISLAND | ALASKA PENINSULA | 55.533 | 157.083 | 19-Nov-97 | 12:37 | 139 | 70 | 0:06 | 30 | 80 | 59 | 0.85 | 2.90 | 1.02 | 3.24 | 8.02 |
| HS973548 | MITROFANIA ISLAND | ALASKA PENINSULA | 55.438 | 157.000 | 19-Nov-97 | 14:22 | 122 | 70 | 0:08 | 45 | 99 | 72 | 12.04 | 1.82 | 0.00 | 5.88 | 19.73 |
| HS973549 | MITROFANIA ISLAND | ALASKA PENINSULA | 55.353 | 156.922 | 19-Nov-97 | 16:15 | 125 | 80 | 0:05 | 25 | 88 | 25 | 101.54 | 6.72 | 0.00 | 6.72 | 114.98 |
| HS973552 | MITROFANIA ISLAND | ALASKA PENINSULA | 54.667 | 156.445 | 20-Nov-97 | 07:10 | 2,675 | 150 | 0:13 | 45 | 212 | 183 | 0.00 | 16.70 | 0.00 | 1.53 | 18.23 |
| HS973553 | MITROFANIA ISLAND | ALASKA PENINSULA | 54.773 | 156.477 | 20-Nov-97 | 09:06 | 2,015 | 150 | 0:13 | 44 | 210 | 147 | 25.55 | 8.49 | 1.50 | 5.23 | 40.77 |
| HS973556 | MITROFANIA ISLAND | ALASKA PENINSULA | 55.037 | 156.655 | 21-Nov-97 | 08:30 | 971 | 150 | 0:13 | 42 | 200 | 149 | 0.87 | 4.42 | 1.14 | 4.82 | 11.25 |
| HS973558 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 55.317 | 158.840 | 23-Nov-97 | 12:15 | 159 | 150 | 0:11 | 30 | 173 | 218 | 21.91 | 0.96 | 0.51 | 3.31 | 26.69 |
| HS973559 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 55.137 | 158.542 | 23-Nov-97 | 15:26 | 205 | 150 | 0:13 | 40 | 195 | 295 | 10.00 | 6.00 | 0.71 | 2.64 | 19.35 |
| HS973560 | SHUMAGIN ISLANDS | ALASKA PENINSULA | 54.943 | 158.142 | 23-Nov-97 | 19:14 | 148 | 140 | 0:09 | 35 | 170 | 121 | 1.48 | 31.31 | 0.16 | 0.08 | 33.04 |

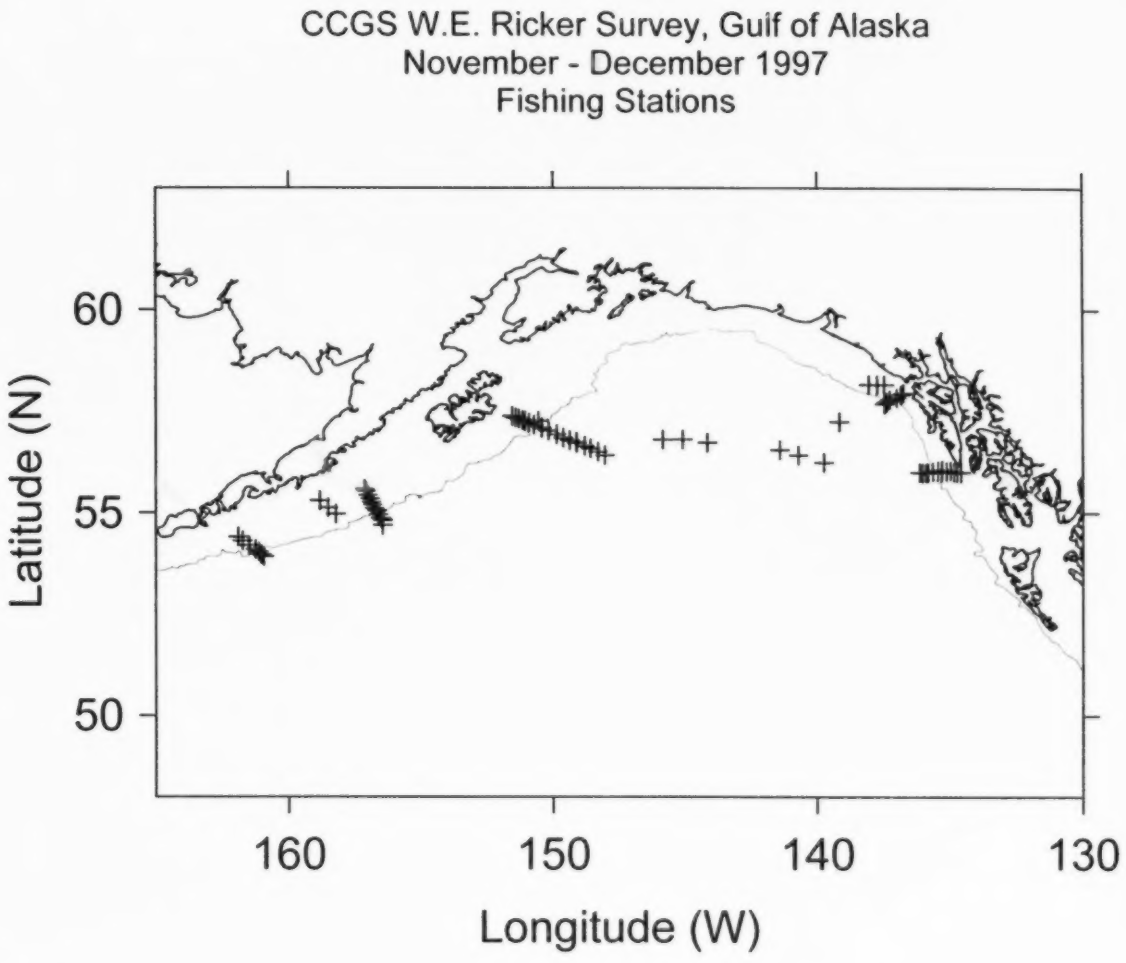


Figure 1. Fishing stations completed on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 to December 12, 1997.

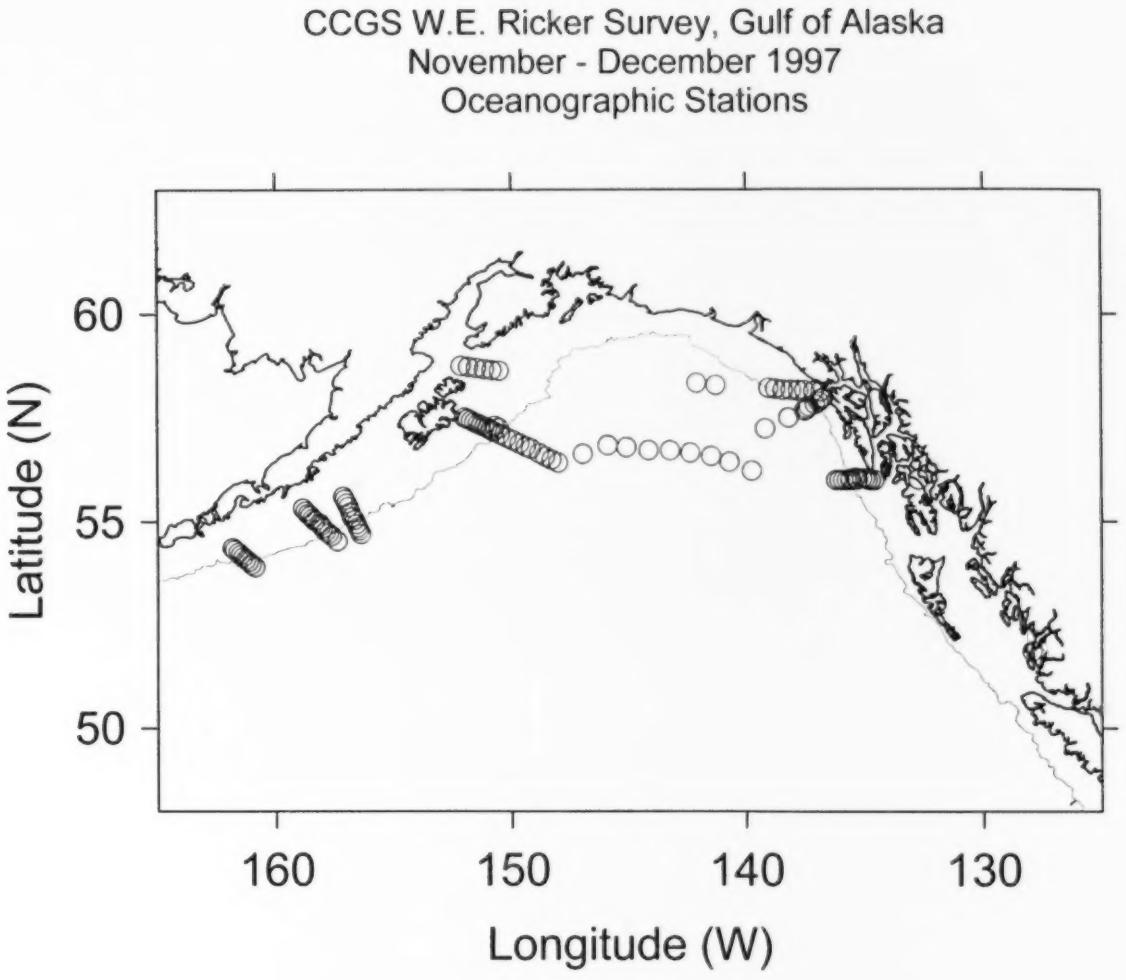


Figure 2. Oceanographic stations completed on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 to December 12, 1997.

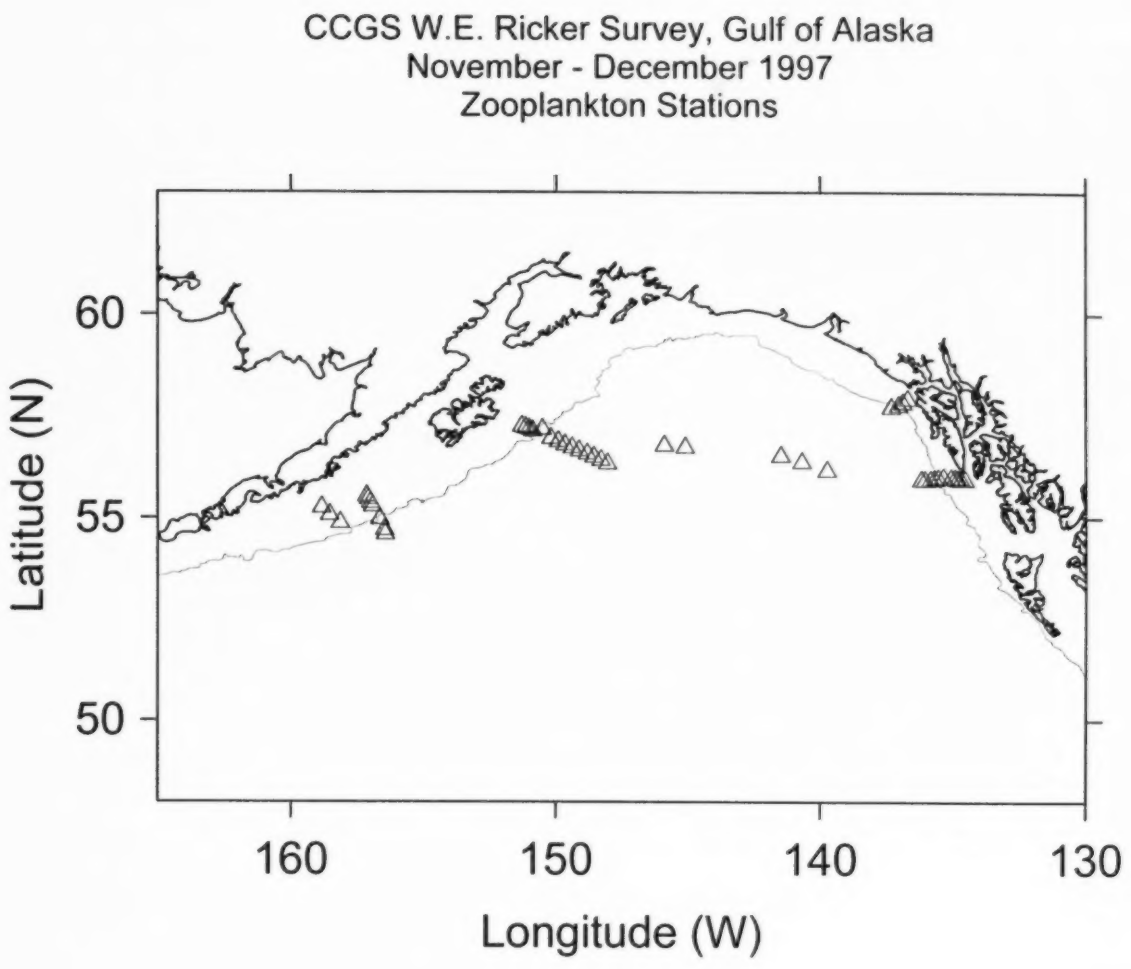


Figure 3. Zooplankton stations completed on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 to December 12, 1997.

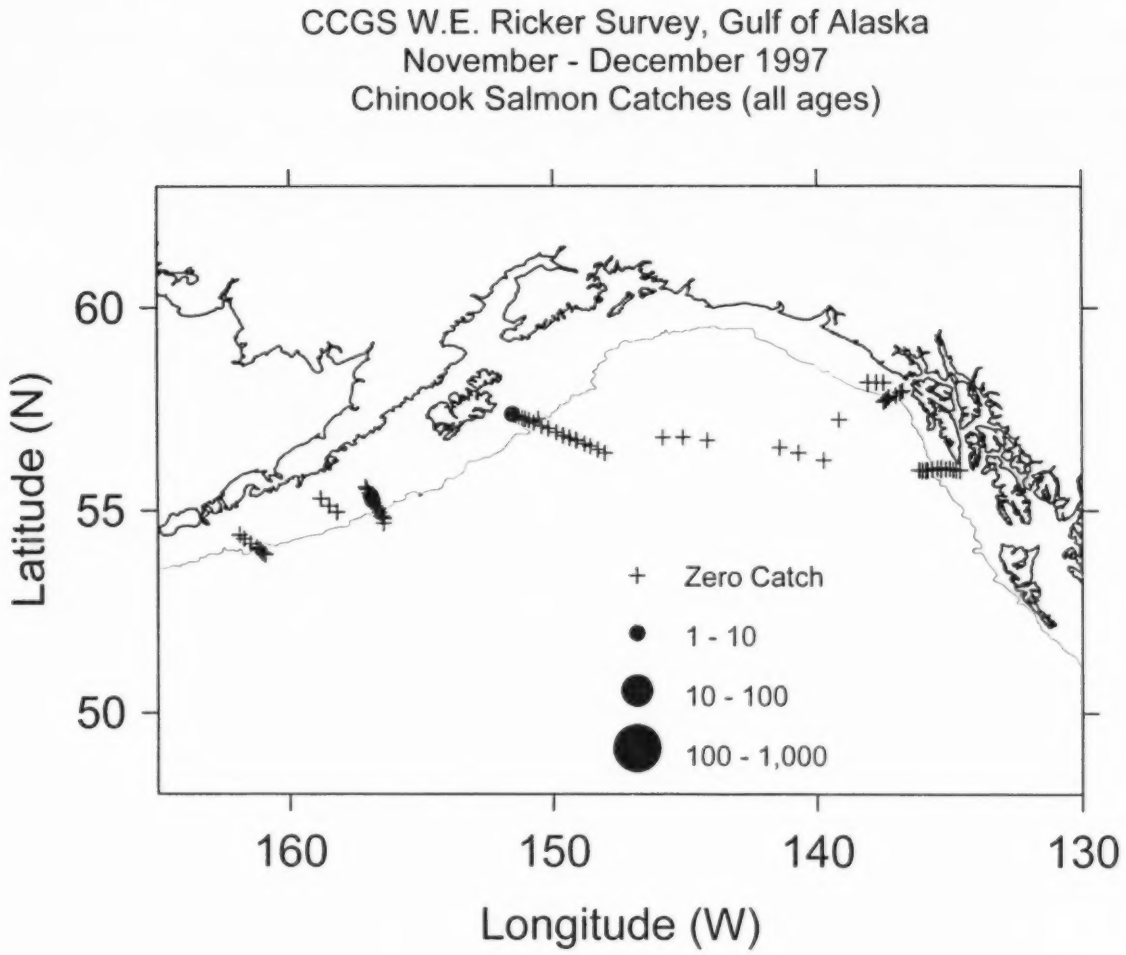


Figure 4. Summary of chinook salmon (all ages) catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

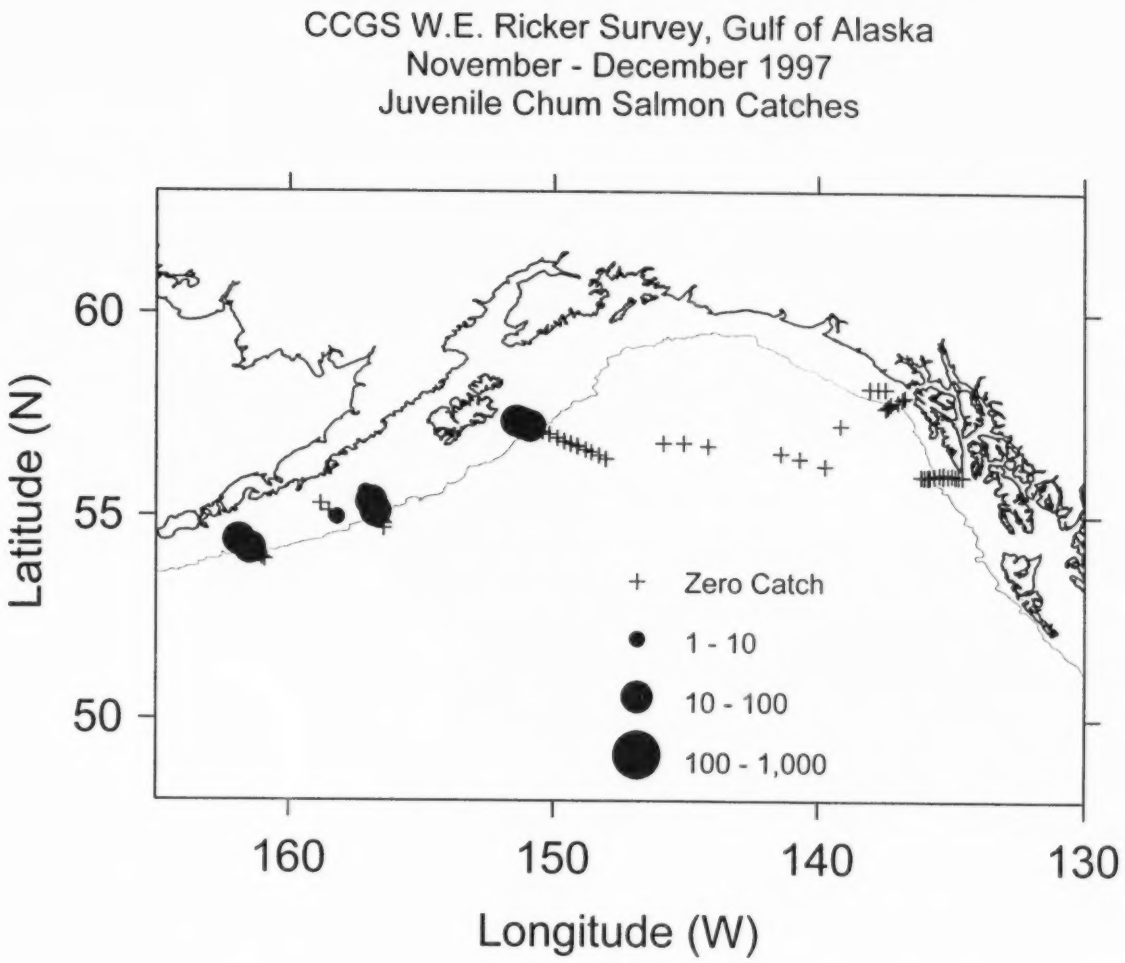


Figure 5. Summary of juvenile (age .0+) chum salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

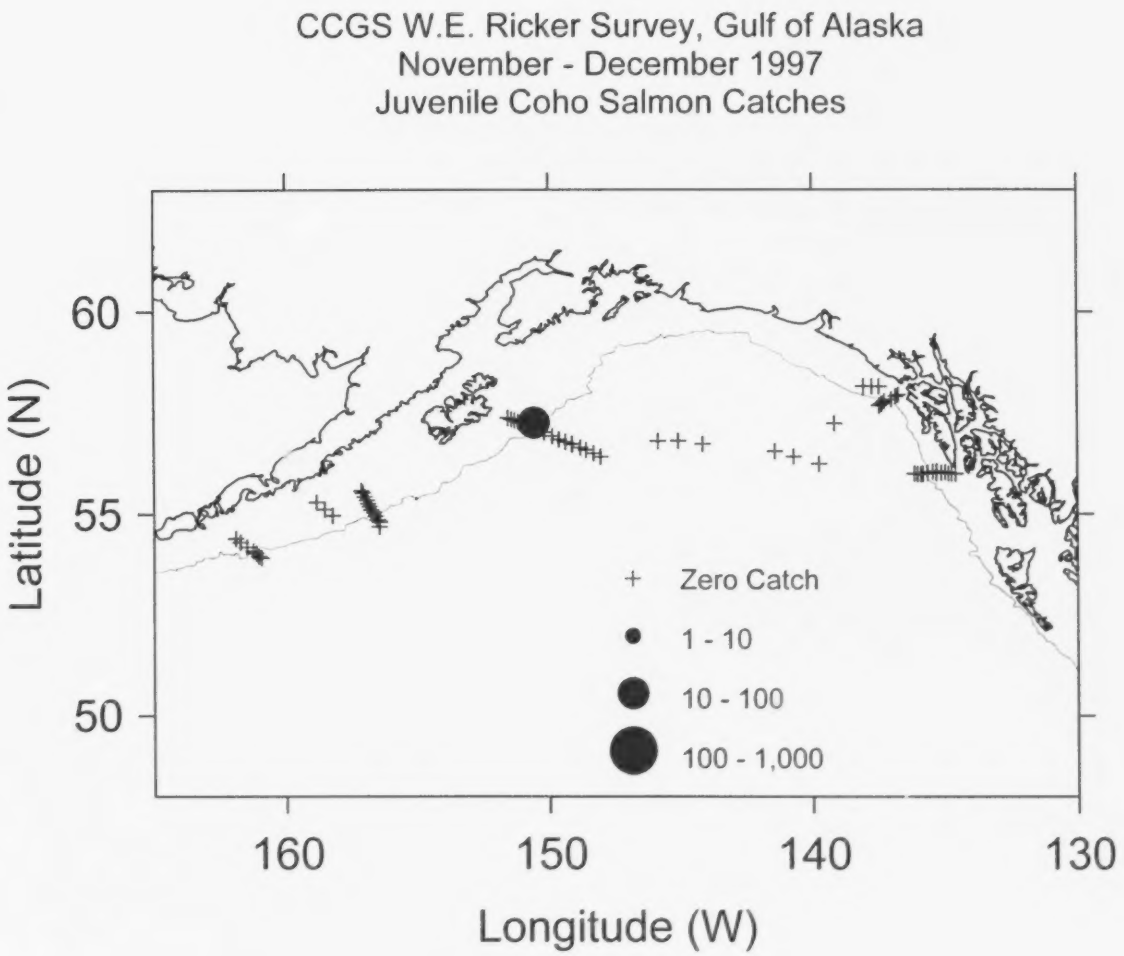


Figure 6. Summary of juvenile (age .0+) coho salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

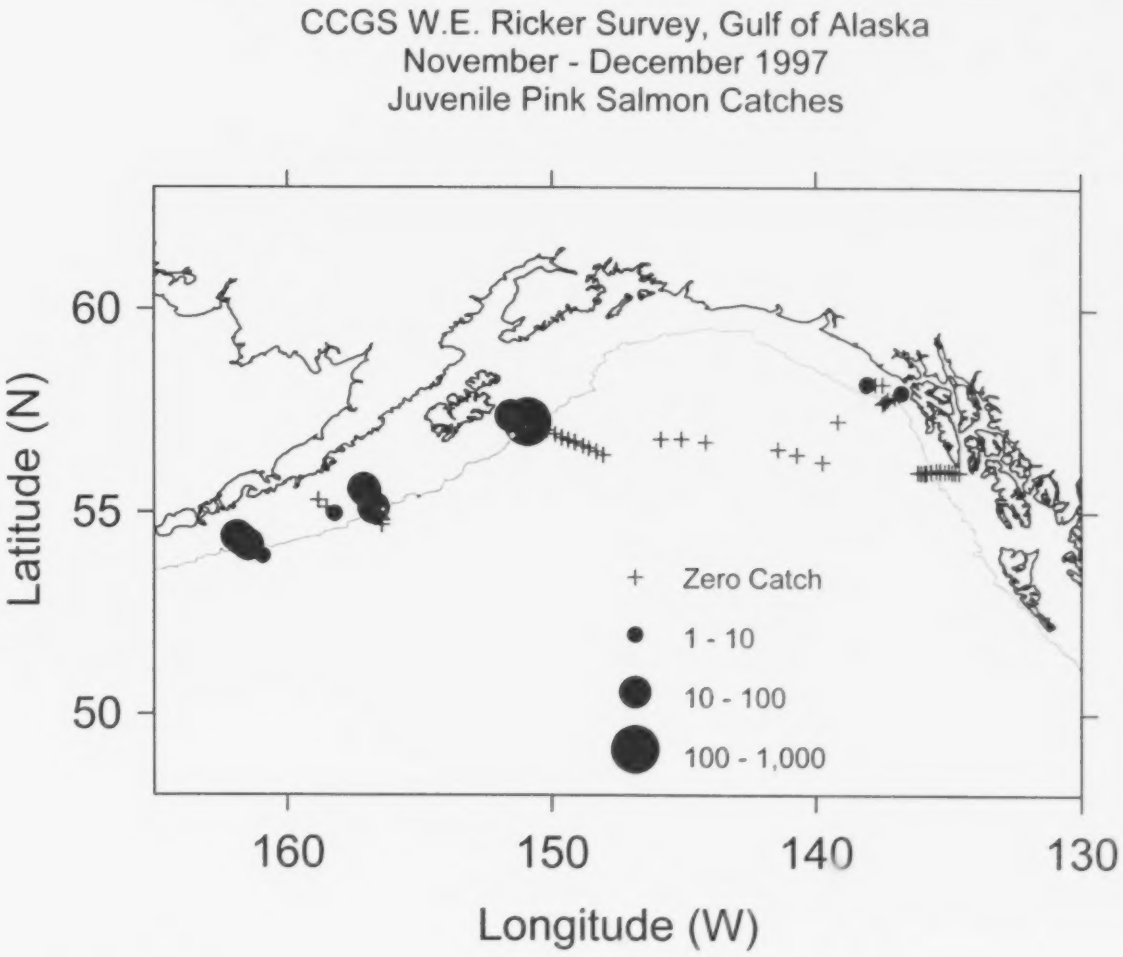


Figure 7. Summary of juvenile (age .0+) pink salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

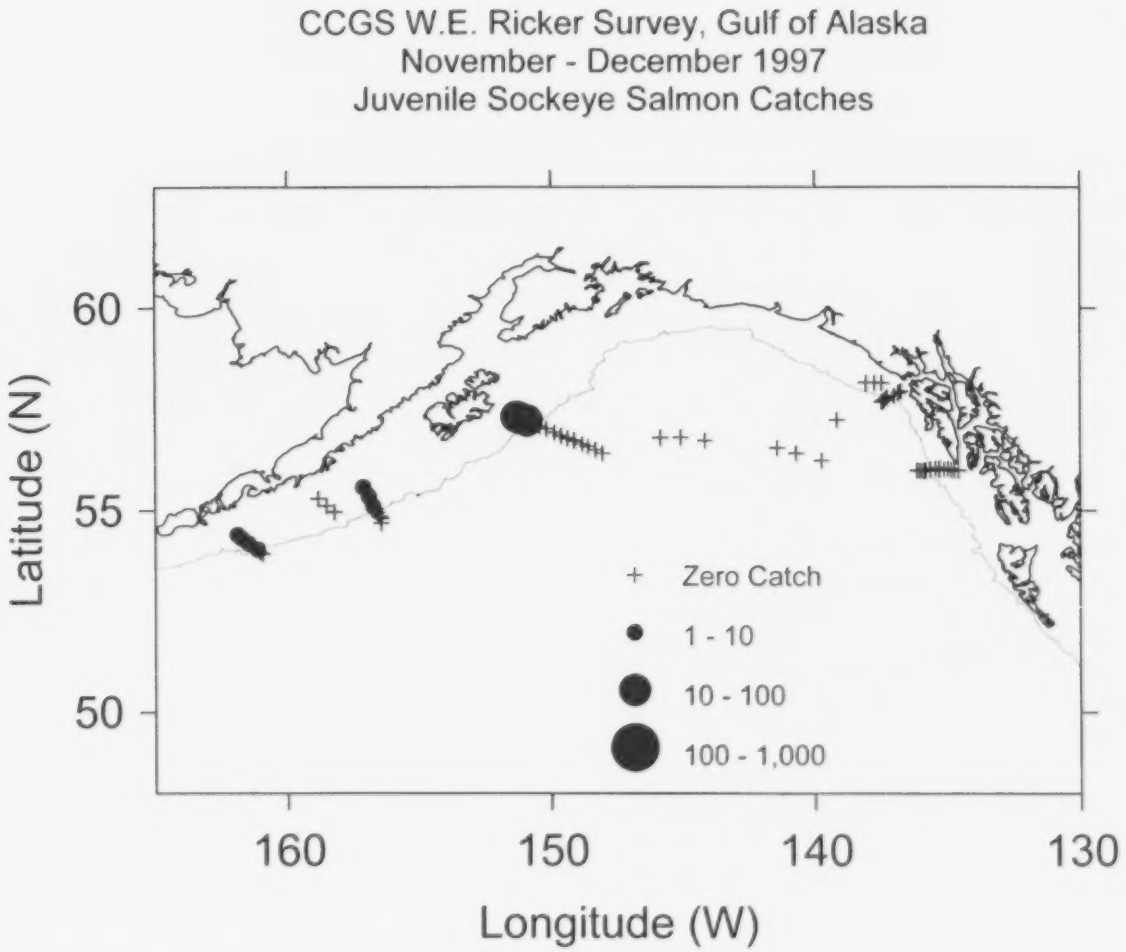


Figure 8. Summary of juvenile (age .0+) sockeye salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

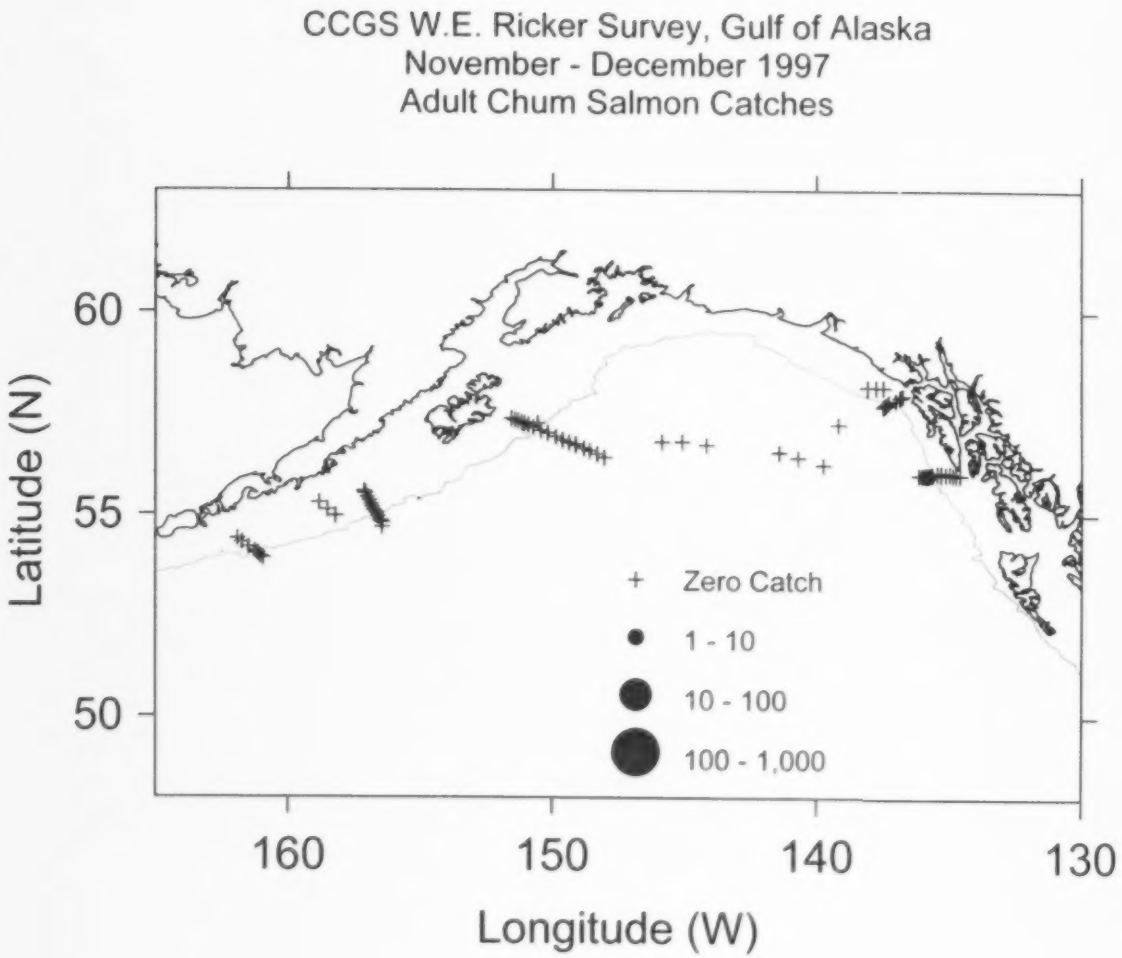


Figure 9. Summary of adult (age .1+ and older) chum salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

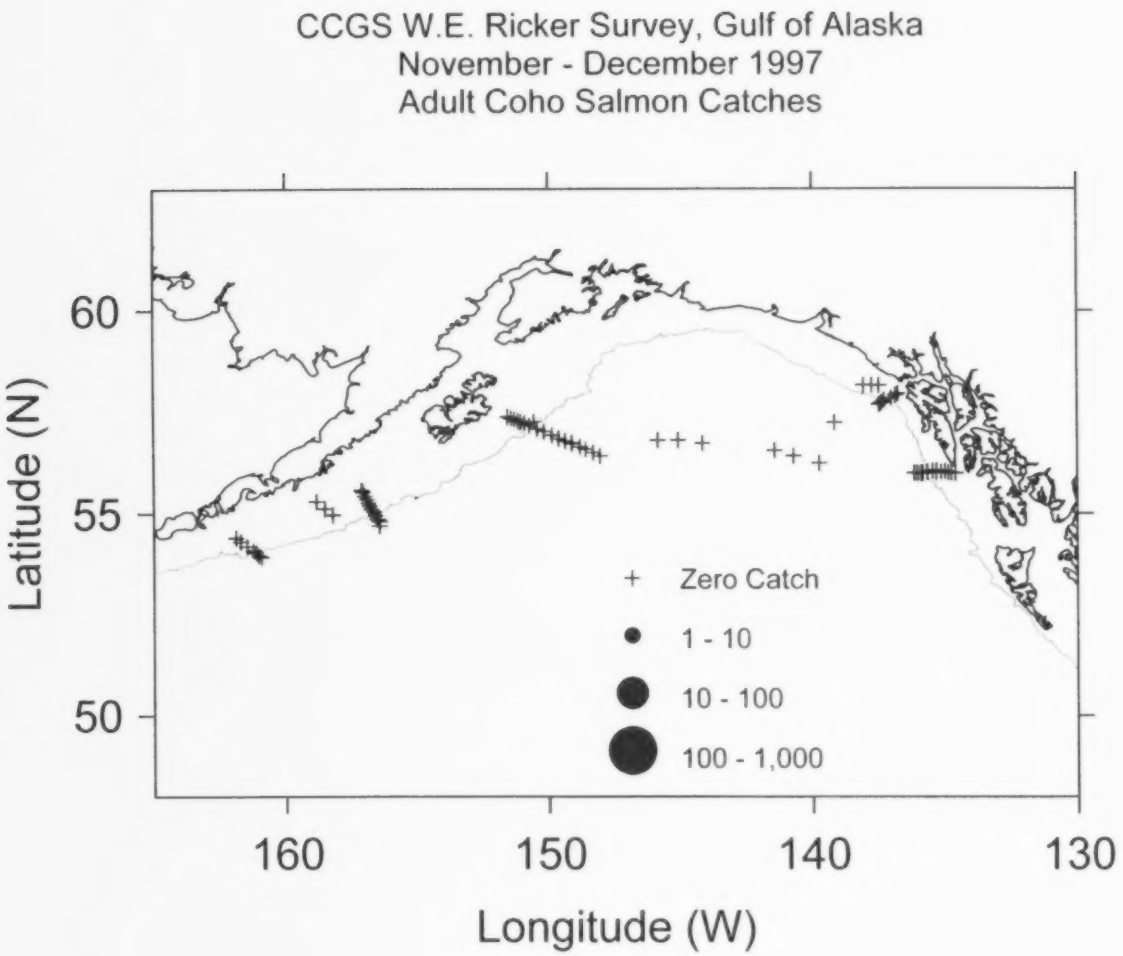


Figure 10. Summary of adult (age .1+ and older) coho salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

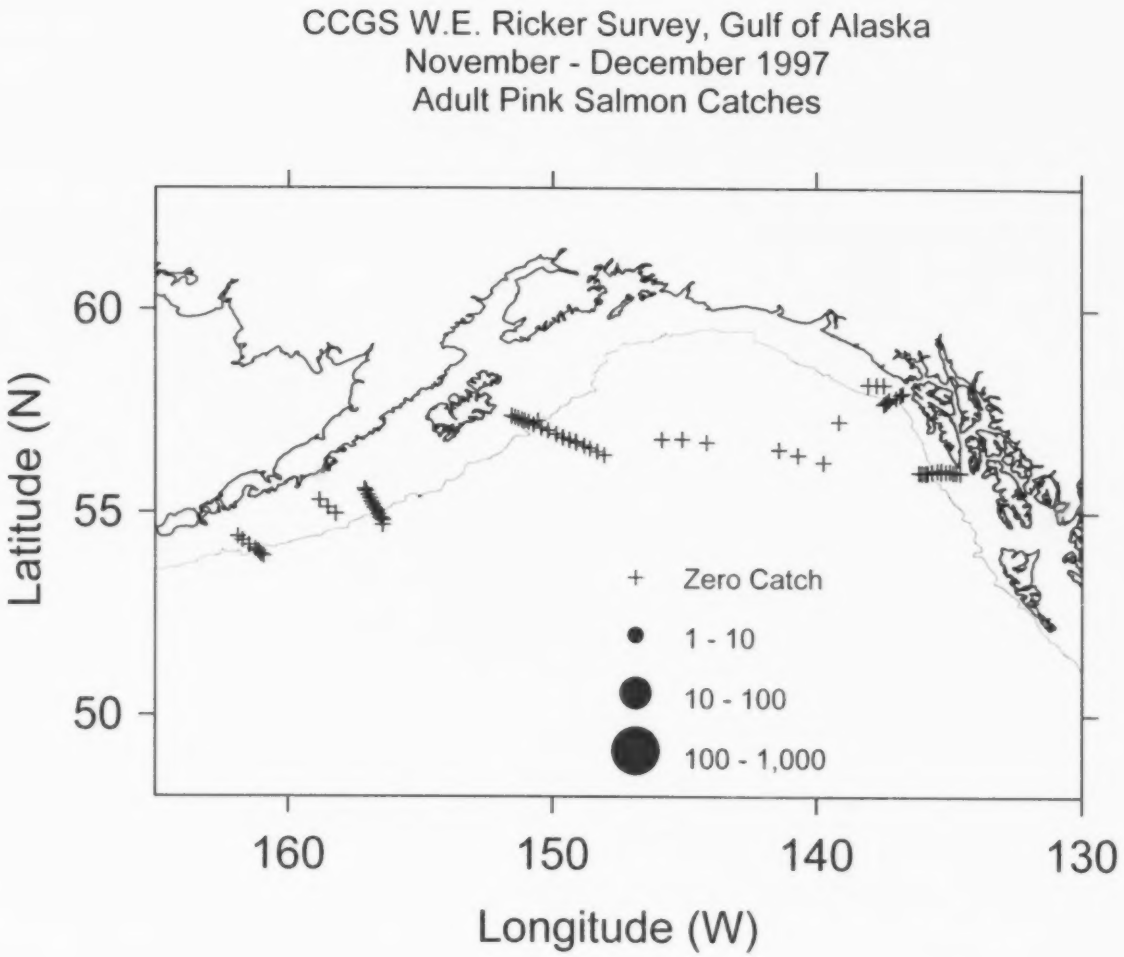


Figure 11. Summary of adult (age .1+ and older) pink salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

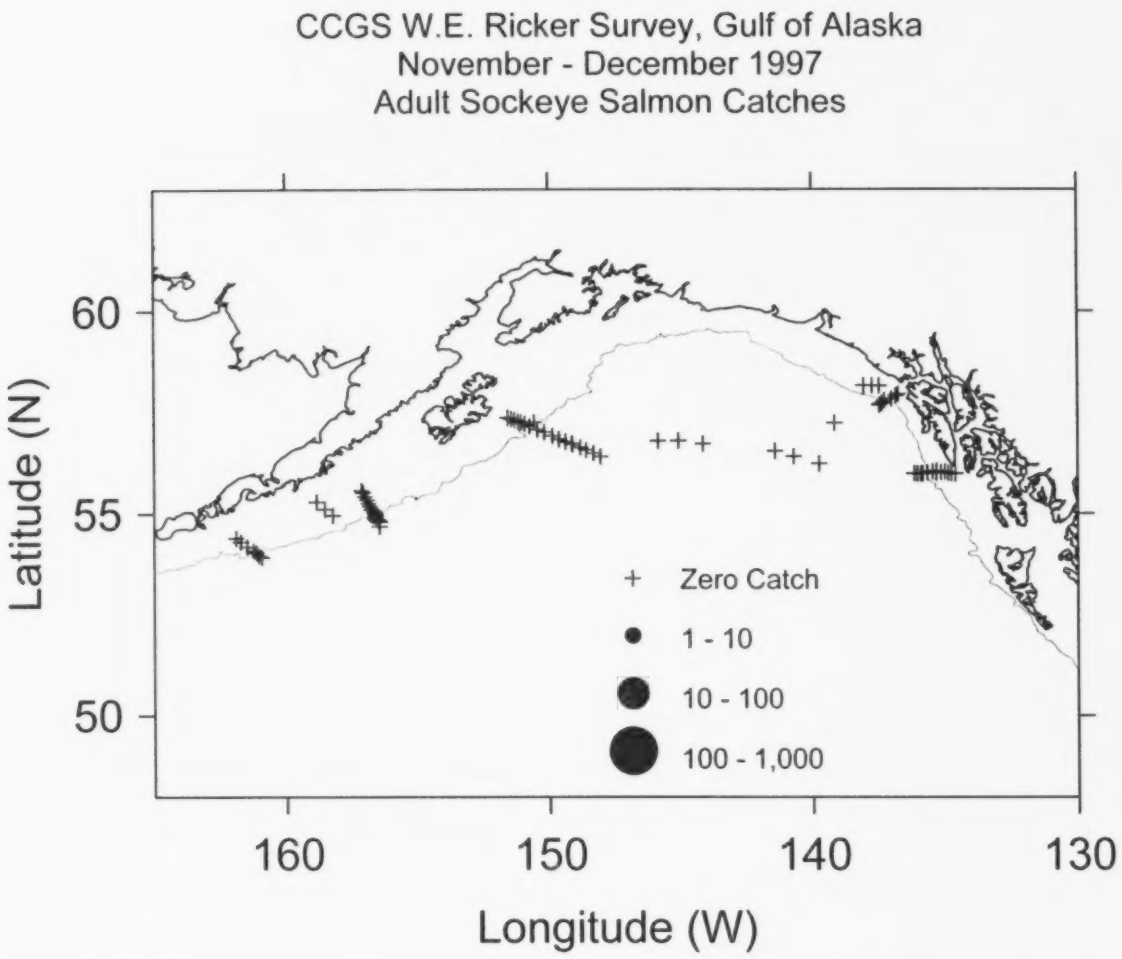


Figure 12. Summary of adult (age .1+ and older) sockeye salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

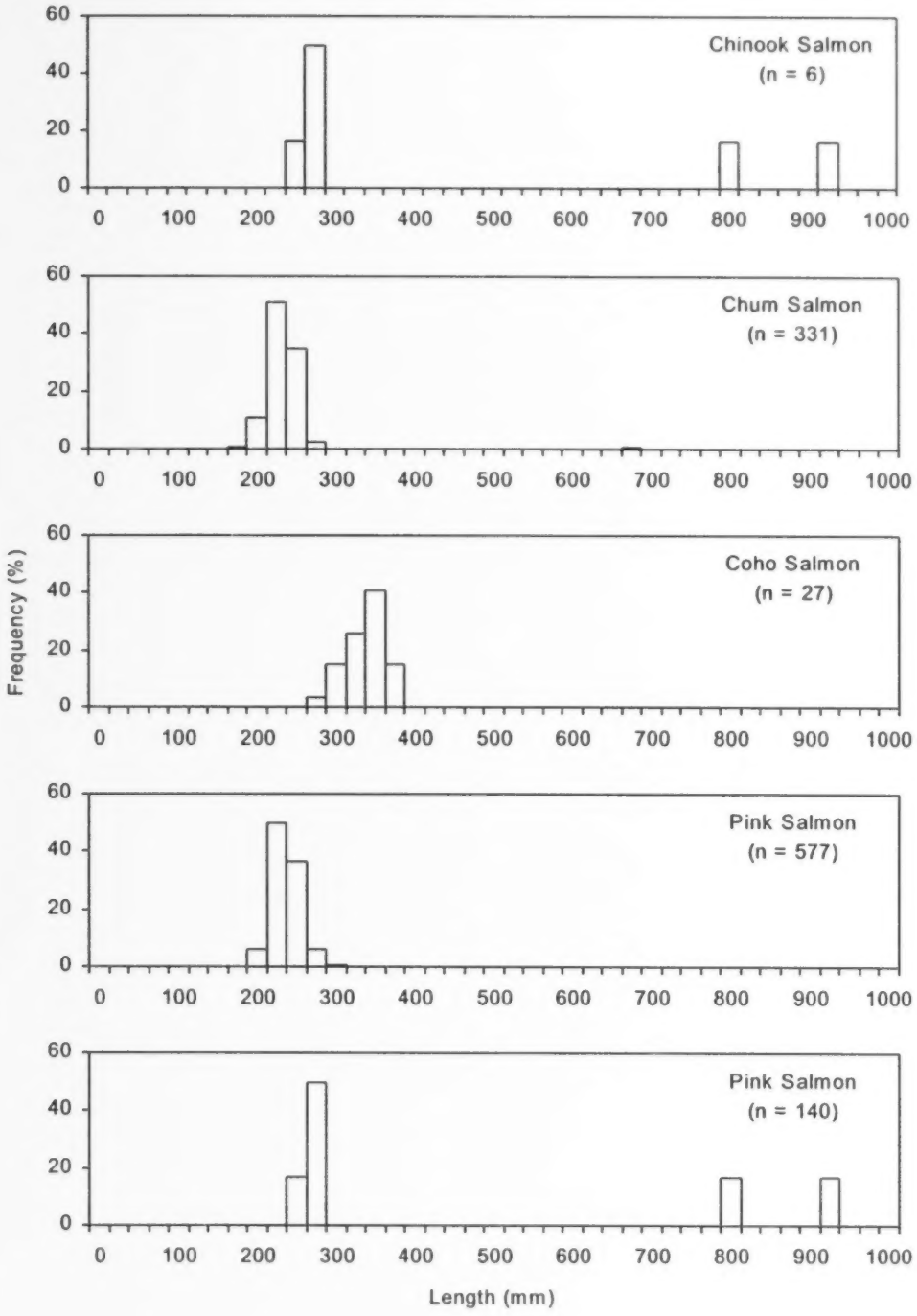


Figure 13. Size distributions of Pacific salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.